

TEST REPORT

of

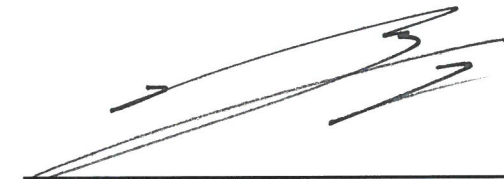
FCC Part 15 Subpart C §15.247

FCC ID: 2AQ2S-CP2-NA-LTE

Equipment Under Test : Vehicle Recorder
Model Name : CP2-NA-LTE
Applicant : SmartWitness USA, LLC
Manufacturer : D-TEG Security Co., Ltd.
Date of Receipt : 2019.02.01
Date of Test(s) : 2019.02.21 ~ 2019.03.30
Date of Issue : 2019.03.30

In the configuration tested, the EUT complied with the standards specified above.

Tested By:



Murphy Kim

Date:

2019.03.30

**Technical
Manager:**



Jungmin Yang

Date:

2019.03.29

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SGS Korea Co., Ltd. (Gunpo Laboratory) 4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807 <http://www.sgsgroup.kr>

RTT5041-19(2017.07.10)(0)

Tel. +82 31 428 5700 / Fax. +82 31 427 2370

A4(210 mm x 297 mm)

1. General Information

1.1. Testing Laboratory

SGS Korea Co., Ltd. (Gunpo Laboratory)

- 4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807
- 10-2, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807
- Designation number: KR0150

All SGS services are rendered in accordance with the applicable SGS conditions of service available on request and accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>.

Phone No. : +82 31 688 0901
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1.2. Details of Applicant

Applicant : SmartWitness USA, LLC
 Address : 1108 Lunt Avenue, Schaumburg, Illinois, United States, 60193
 Contact Person : CHRIS PFLANZ
 Phone No. : +2 312 981 8774

1.3. Details of Manufacturer

Company : D-TEG Security Co., Ltd.
 Address : 3F, Jungmin Bldg, 53 Maewha-ro, Bundang-gu, Seongnam, Gyeonggi-do 13505, Korea

1.4. Description of EUT

Kind of Product	Vehicle Recorder
Model Name	CP2-NA-LTE
Power Supply	DC 12 V, DC 24 V
Frequency Range	2 402 MHz ~ 2 480 MHz (Bluetooth, Bluetooth Low Energy) 2 412 MHz ~ 2 462 MHz (11b/g/n_HT20) 2 422 MHz ~ 2 452 MHz (11n_HT40)
Modulation Technique	GFSK, $\pi/4$ DQPSK, 8DPSK, DSSS, OFDM
Number of Channels	79 channels (Bluetooth), 40 channels (Bluetooth Low Energy), 11 channels (11b/g/n_HT20), 7 channels (11n_HT40)
Antenna Type	Multilayer Chip Antenna
Antenna Gain	3.50 dB i

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1.5. Test Equipment List

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Interval	Cal. Due
Signal Generator	R&S	SMR40	100272	Jun. 12, 2018	Annual	Jun. 12, 2019
Signal Generator	R&S	SMBV100A	255834	Jun. 15, 2018	Annual	Jun. 15, 2019
Spectrum Analyzer	R&S	FSV30	103102	Jun. 11, 2018	Annual	Jun. 11, 2019
Spectrum Analyzer	Agilent	N9020A	MY53421758	Sep. 21, 2018	Annual	Sep. 21, 2019
Attenuator	MCLI	FAS-23-20	23834	Jun. 12, 2018	Annual	Jun. 12, 2019
High Pass Filter	Wainwright Instrument GmbH	WHK3.0/18G-10SS	344	May 27, 2018	Annual	May 27, 2019
High Pass Filter	Wainwright Instrument GmbH	WHNX7.5/26.5G-6SS	15	Jun. 11, 2018	Annual	Jun. 11, 2019
Low Pass Filter	Mini-Circuits	NLP-1200+	V 8979400903-1	May 24, 2018	Annual	May 24, 2019
Power Sensor	R&S	NRP-Z81	100748	Jun. 12, 2018	Annual	Jun. 12, 2019
DC Power Supply	Agilent	U8002A	MY50060028	Mar. 12, 2019	Annual	Mar. 12, 2020
Preamplifier	H.P.	8447F	2944A03909	Aug. 07, 2018	Annual	Aug. 07, 2019
Preamplifier	Agilent	8449B	3008A01932	Feb 22, 2019	Annual	Feb 22, 2020
Preamplifier	MITEQ Inc.	JS44-18004000-35-8P	1546891	May 13, 2019	Annual	May 13, 2020
Loop Antenna	Schwarzbeck Mess-Elektronik	FMZB 1519	1519-039	Aug. 23, 2017	Biennial	Aug. 23, 2019
Bilog Antenna	Schwarzbeck Mess-Elektronik	VULB 9163	01126	Mar. 26, 2018	Biennial	Mar. 26, 2020
Horn Antenna	R&S	HF906	100326	Feb. 14, 2018	Biennial	Feb. 14, 2020
Horn Antenna	Schwarzbeck Mess-Elektronik	BBHA 9170	BBHA9170431	Sep. 10, 2018	Biennial	Sep. 10, 2020
Antenna Master	INNCO systems GmbH	MA4640-XP-ET	MA4640/536/383 30516/L	N.C.R.	N/A	N.C.R.
Test Receiver	R&S	ESU26	100109	Jan. 31, 2019	Annual	Jan. 31, 2020
Shield Room	SY Corporation	L x W x H (6.5 m x 3.5 m x 3.5 m)	N/A	N.C.R.	N/A	N.C.R.
Turn Table	Innco systems GmbH	DS 1200 S	N/A	N.C.R.	N/A	N.C.R.
Controller	Innco systems GmbH	CONTROLLER CO3000-4P	CO3000/963/383 30516/L	N.C.R.	N/A	N.C.R.
Anechoic Chamber	SY Corporation	L x W x H (9.6 m x 6.4 m x 6.6 m)	N/A	N.C.R.	N/A	N.C.R.
Coaxial Cable	SUCOFLEX	104 (3 m)	MY3258414	Jan. 04, 2019	Semi-annual	Jul. 04, 2019
Coaxial Cable	SUCOFLEX	104 (10 m)	MY3145814	Jan. 04, 2019	Semi-annual	Jul. 04, 2019
Coaxial Cable	Rosenberger	LA1-C006-1500	131014 01/20	Feb. 28, 2019	Semi-annual	Aug. 28, 2019

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1.6. Summary of Test Results

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part15 Subpart C		
Section	Test Item(s)	Result
15.205(a) 15.209 15.247(d)	Transmitter Radiated Spurious Emissions and Conducted Spurious Emission	Complied
15.247(a)(2)	6 dB Bandwidth	Complied
15.247(b)(3)	Maximum Peak Conducted Output Power	Complied
15.247(e)	Power Spectral Density	Complied

1.7. Test Procedure(s)

The measurement procedures described in the American National Standard of Procedure for Compliance Testing of unlicensed Wireless Devices (ANSI C63.10-2013) and the guidance provided in KDB 558074 D01 15.247 Meas Guidance v05r01 were used in the measurement of the DUT.

1.8. Sample Calculation

Where relevant, the following sample calculation is provided:

1.8.1. Conducted Test

Offset value (dB) = Attenuator (dB) + Cable loss (dB)

1.8.2. Radiation Test

Field strength level (dB μ V/m) = Measured level (dB μ V) + Antenna factor (dB) + Cable loss (dB) - Amplifier gain (dB)

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1.9. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty (dB)
Radiated Disturbance, 9 kHz to 30 MHz	± 3.59
Radiated Disturbance, below 1 GHz	± 5.88
Radiated Disturbance, above 1 GHz	± 5.94

Uncertainty figures are valid to a confidence level of 95 %.

1.10. Test Report Revision

Revision	Report number	Date of Issue	Description
0	F690501/RF-RTL013649	2019.03.30	Initial

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Tel. +82 31 428 5700 / Fax. +82 31 427 2370

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1.12. Duty Cycle of EUT

Regarding to KDB 558074 D01 15.247 Meas Guidance v05r01, 6, the maximum duty cycles of all modes were investigated and set the spectrum analyzer as below;

Set RBW \geq OBW if possible; otherwise, set RBW to the largest available value. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100.

Test voltage: DC 12 V

Mode	Data Rate (Mbps)	Duty Cycle (%)	Correction factor (dB)
11b	1	98.62	0.06
11g	6	94.08	0.27
11n_HT20	MCS0	94.32	0.25
11n_HT40	MCS0	85.53	0.68

Test voltage: DC 24 V

Mode	Data Rate (Mbps)	Duty Cycle (%)	Correction factor (dB)
11b	1	99.27	0.03
11g	6	88.93	0.51
11n_HT20	MCS0	93.36	0.30
11n_HT40	MCS0	79.87	0.98

Remark;

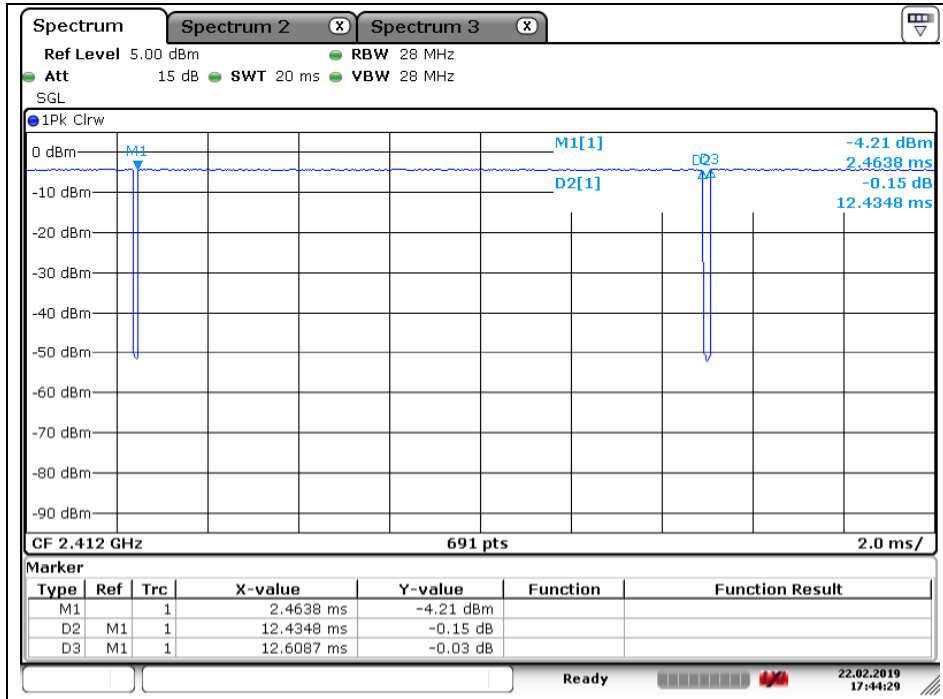
1. As measured duty cycles of EUT, all of mode and data rate keep constant period and are converted to log scale (power averaging) to compensate correction factor to result of average test items.
2. Duty Cycle (%) = (Tx on time / Tx on + off time) x 100
3. Correction factor (dB) = 10 log (1 / Duty Cycle)

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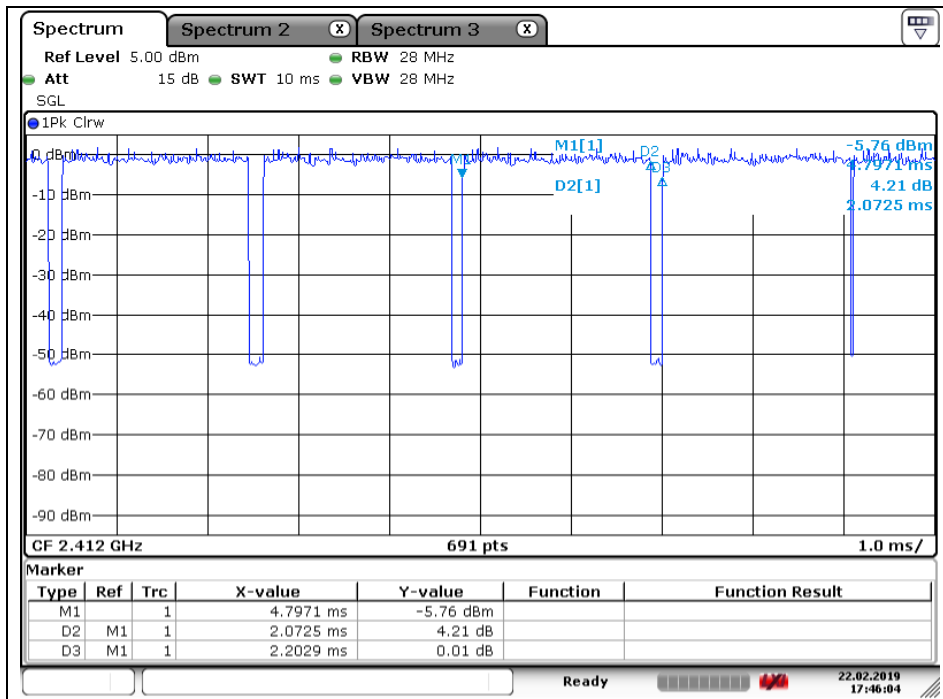
- Test plots

Test voltage: DV 12 V

802.11b

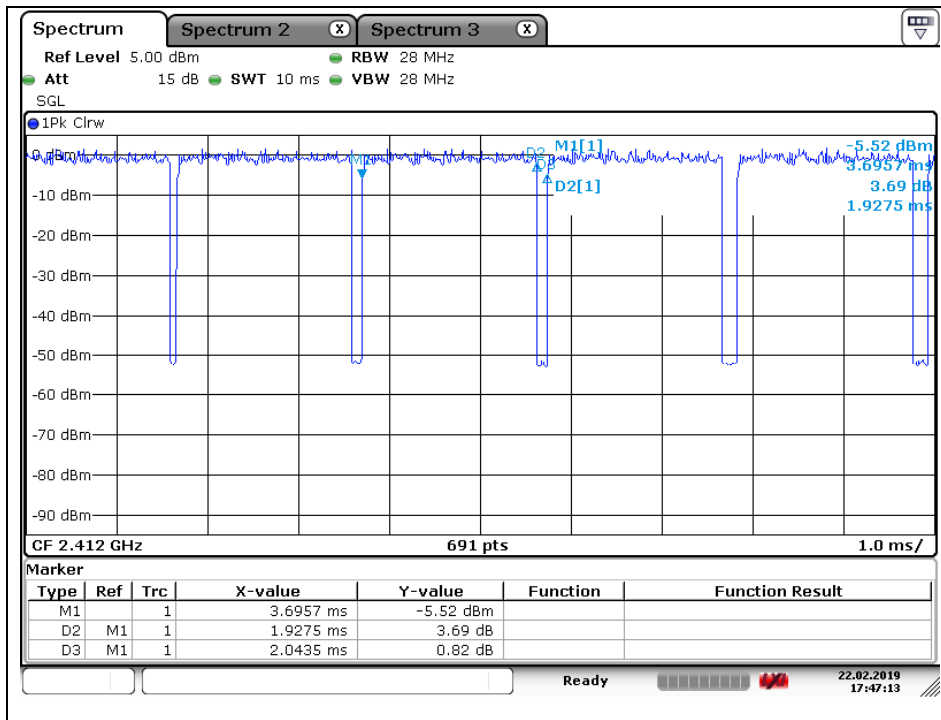


802.11g

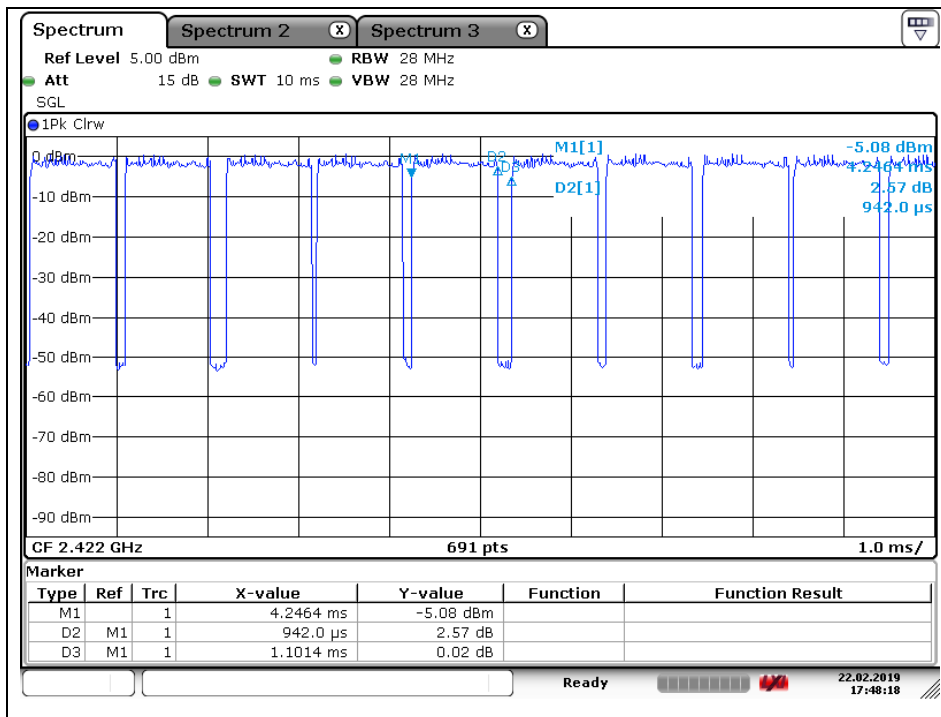


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802.11n_HT20



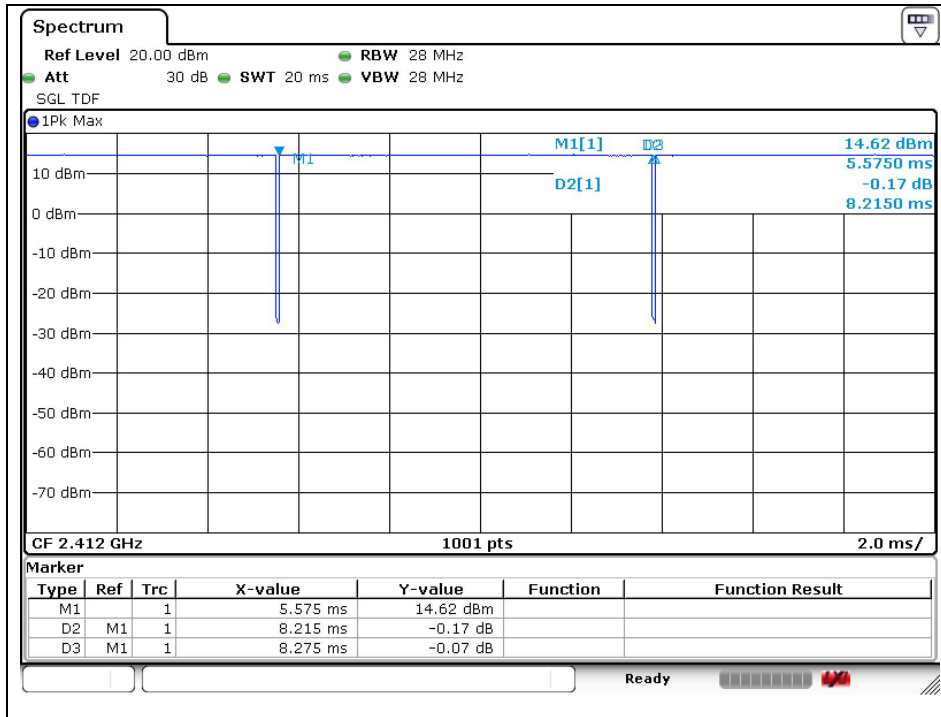
802.11n_HT40



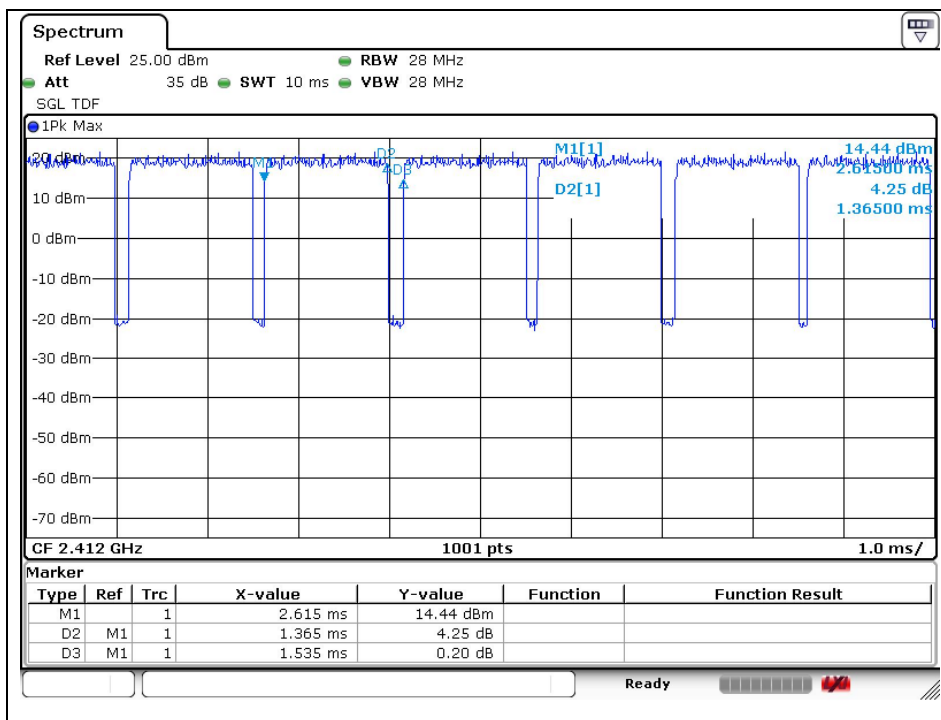
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Test voltage: DC 24 V

802.11b

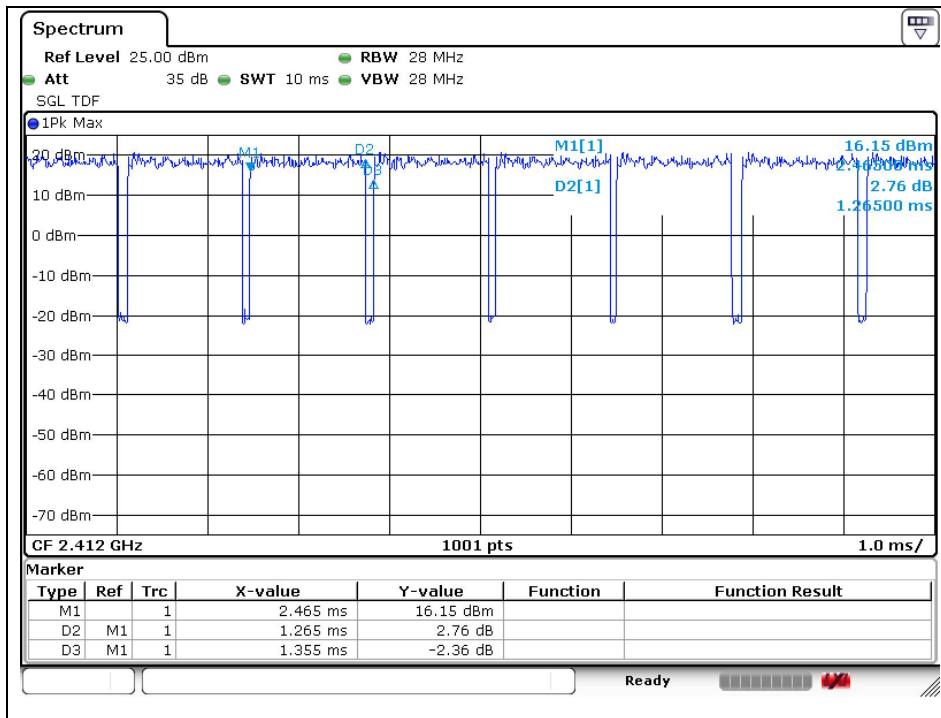


802.11g

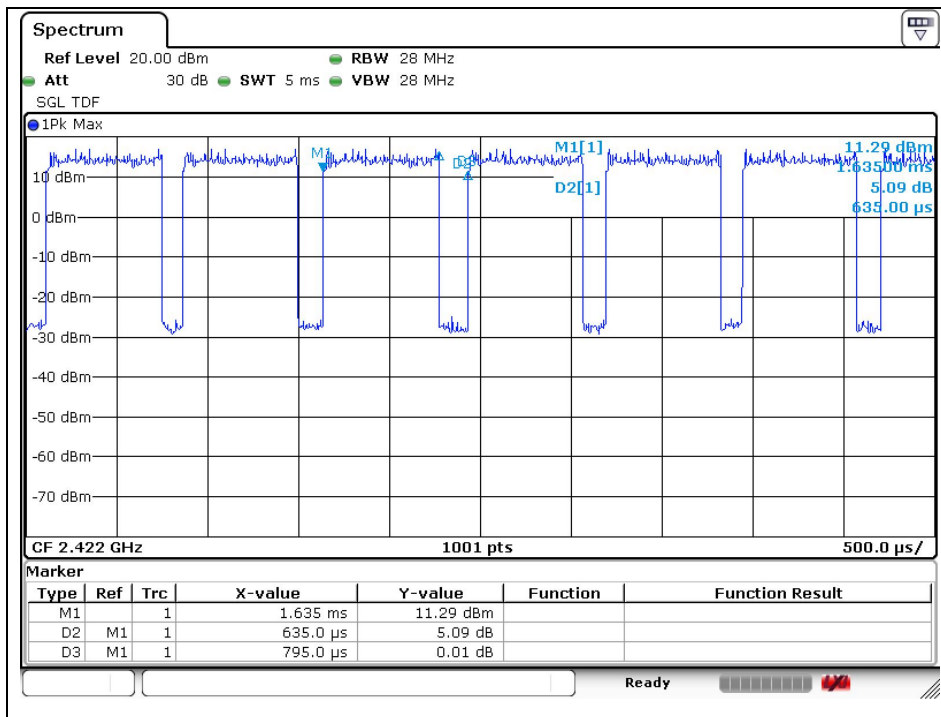


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802.11n_HT20



802.11n_HT40



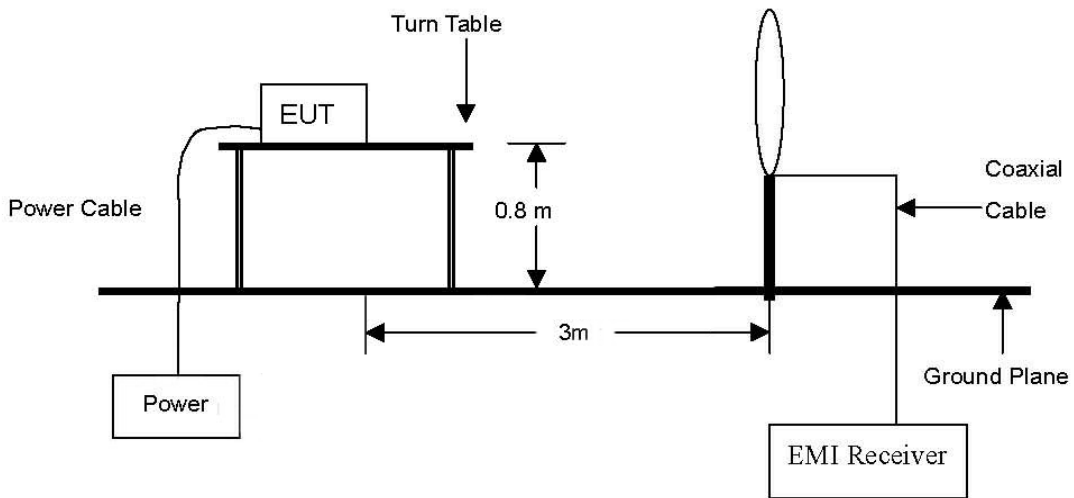
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2. Transmitter Radiated Spurious Emissions and Conducted Spurious Emission

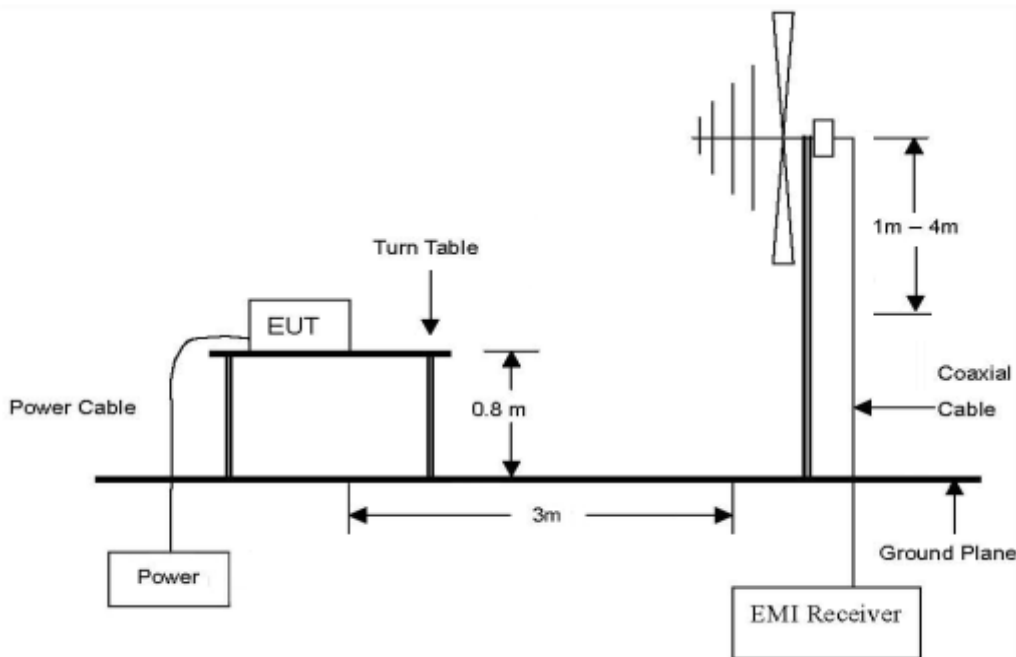
2.1. Test Setup

2.1.1. Transmitter Radiated Spurious Emissions

The diagram below shows the test setup that is utilized to make the measurements for emission from 9 kHz to 30 MHz emissions.

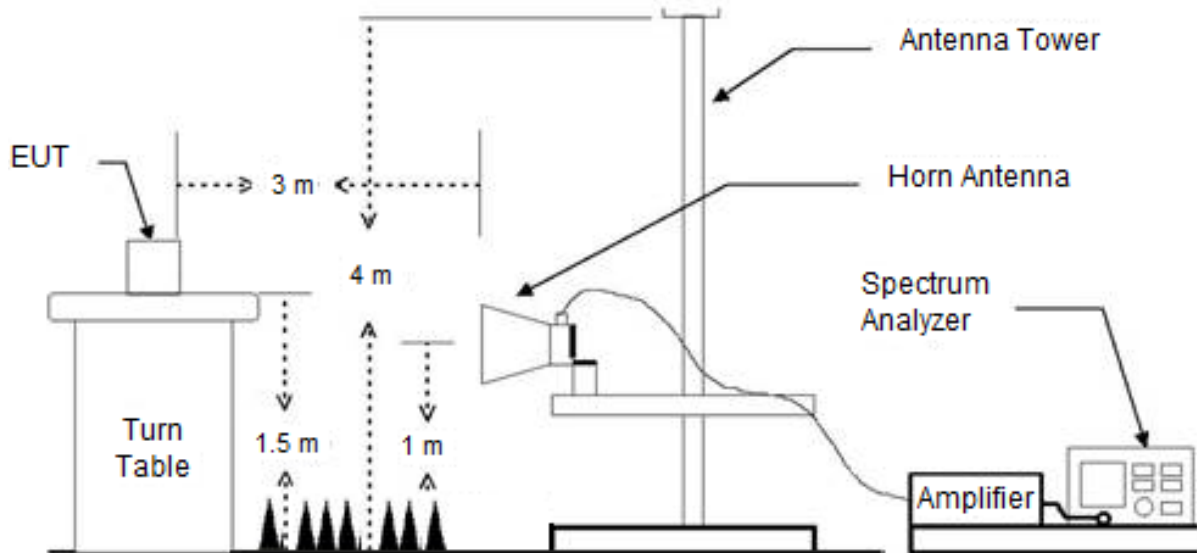


The diagram below shows the test setup that is utilized to make the measurements for emission from 30 MHz to 1 GHz Emissions.



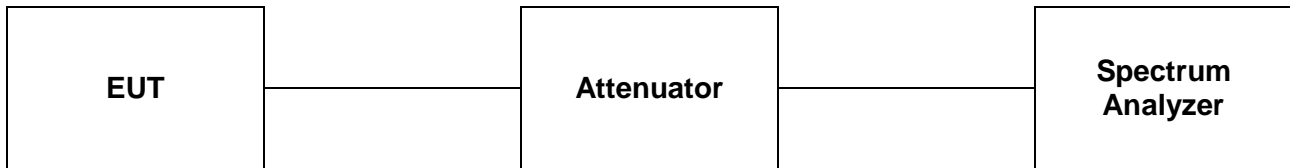
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The diagram below shows the test setup that is utilized to make the measurements for emission. The spurious emissions were investigated from 1 GHz to the 10th harmonic of the highest fundamental frequency or 40 GHz, whichever is lower.



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2.1.2. Conducted Spurious Emission



2.2. Limit

According to §15.247(d), in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in section §15.209(a) is not required. In addition, radiated emission which fall in the restricted bands, as defined in section §15.205(a), must also comply with the radiated emission limits specified in section §15.209(a) (see §15.205(c)).

According to §15.209(a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength ($\mu\text{V}/\text{m}$)	Measurement Distance (Meters)
0.009-0.490	2 400/F(kHz)	300
0.490-1.705	24 000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§15.231 and 15.241.

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2.3. Test Procedures

Radiated emissions from the EUT were measured according to the dictates in section 11.11 & 11.12 of ANSI C63.10-2013.

2.3.1. Test Procedures for emission below 30 MHz

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter anechoic chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.
2. Then antenna is a loop antenna is fixed at one meter above the ground to determine the maximum value of the field strength. Both parallel and perpendicular of the antenna are set to make the measurement.
3. For each suspected emission, the EUT was arranged to its worst case and then the table was turned from 0 degrees to 360 degrees to find the maximum reading.
4. The test-receiver system was set to average or quasi peak detect function and Specified Bandwidth with Maximum Hold Mode.

2.3.2. Test Procedures for emission from above 30 MHz

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter anechoic chamber test site below 1 GHz and 1.5 meters above the ground at a 3 meter anechoic chamber test site above 1 GHz. The table was rotated 360 degrees to determine the position of the highest radiation.
2. During performing radiated emission below 1 GHz, the EUT was set 3 meters away from the interference receiving antenna, which was mounted on the top of a variable-height antenna tower. During performing radiated emission above 1 GHz, the EUT was set 3 meter away from the interference-receiving antenna.
3. The antenna is a bi-log antenna, a horn antenna and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

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Note;

All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

1. Unwanted Emissions into Non-Restricted Frequency Bands

- The Reference Level Measurement refer to section 11.11.2

Set analyzer center frequency to DTS channel center frequency, SPAN ≥ 1.5 times the DTS bandwidth, the RBW = 100 kHz and VBW $\geq 3 \times$ RBW, Detector = Peak, Sweep time = Auto couple, Trace = Max hold.

- Unwanted Emissions Level Measurement refer to section 11.11.3

Set the center frequency and span to encompass frequency range to be measured, the RBW = 100 kHz and VBW $\geq 3 \times$ RBW, Detector = Peak, Sweep time = Auto couple, Trace = Max hold.

2. Unwanted Emissions into Restricted Frequency Bands

- Peak Power measurement procedure refer to section 11.12.2.4

Set RBW = as specified in Table 9, VBW $\geq 3 \times$ RBW, Detector = Peak, Sweep time = auto, Trace = Max hold.

Table 9– RBW as a function of frequency

Frequency	RBW
9 kHz to 150 kHz	200 Hz to 300 Hz
0.15 MHz to 30 MHz	9 kHz to 10 kHz
30 MHz to 1 000 MHz	100 kHz to 120 kHz
> 1 000 MHz	1 MHz

If the peak – detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.

-Average Power measurements procedure refer to section 11.12.2.5.2

The EUT shall be configured to operate at the maximum achievable duty cycle.

Measure the duty cycle D of the transmitter output signal as described in section 11.6.

Set RBW = 1 MHz, VBW $\geq 3 \times$ RBW, Detector = RMS, if span / (# of points in sweep) \leq (RBW/2).

Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied then the detector mode shall be set to peak.

Averaging type = power (i.e., RMS).

As an alternative the detector and averaging type may be set for linear voltage averaging.

Some instruments require linear display mode in order to use linear voltage averaging. Log or dB averaging shall not be used. Sweep time = auto, Perform a trace average of at least 100 traces.

A correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 percent duty cycle. The correction factor is computed as follows:

- 1) If power averaging (rms) mode was used in step f), then the applicable correction factor is $[10 \log(1 / D)]$, where D is the duty cycle.
- 3) If a specific emission is demonstrated to be continuous (D \geq 98 %) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission.

3. Definition of DUT Axis.

Definition of the test orthogonal plan for EUT was described in the test setup photo.

The test orthogonal plan of EUT is **X – axis** during radiation test.

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2.3.3. Test Procedures for Conducted Spurious Emissions

All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

Per the guidance of ANSI C63.10-2013, section 11.11.1 & 11.11.2 & 11.11.3, the reference level for out of band emissions is established from the plots of this section since the band edge emissions are measured with a RBW of 100 kHz. This reference level is then used as the limit in subsequent plots for out of band spurious emissions shown in section 2.4.3. The limit for out of band spurious emission at the band edge is 20 dB below the fundamental emission level measured in a 100 kHz bandwidth.

1. Conducted Emissions at Band Edge

- The Measurement refer to section 11.11.2

Set the center frequency and span to encompass frequency range to be measured, the RBW = 100 kHz and VBW $\geq 3 \times$ RBW, Detector = Peak, Sweep time = Auto couple, Trace mode = Max hold, The trace was allowed to stabilize.

2. Conducted Spurious Emissions

- The Measurement refer to section 11.11.3

Start frequency was set to 9 kHz and stop frequency was set to 25 GHz (separated into two plots per channel), RBW = 1 MHz, VBW $\geq 3 \times$ RBW, Detector = Peak, Sweep time = Auto couple, Trace = Max hold, The trace was allowed to stabilize.

3. TDF function

- For plots showing conducted spurious emissions from 9 kHz to 25 GHz, all path loss of wide frequency range was investigated and compensated to spectrum analyzer as TDF function. So, the reading values shown in plots were final result.

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2.4. Test Results

Ambient temperature : (23 ± 1) °C
 Relative humidity : 47 % R.H.

2.4.1. Radiated Spurious Emission below 1 000 MHz

The frequency spectrum from 9 kHz to 1 000 MHz was investigated. All reading values are peak values.

Test voltage: DC 12 V

Radiated Emissions			Ant	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP + CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
50.29	37.00	Peak	V	14.36	-26.43	24.93	40.00	15.07
100.65	37.00	Peak	V	12.13	-25.47	23.66	43.50	19.84
253.26	47.40	Peak	H	12.73	-23.96	36.17	46.00	9.83
427.66	39.00	Peak	H	16.38	-23.03	32.35	46.00	13.65
528.54	40.00	Peak	V	17.80	-22.40	35.40	46.00	10.60
Above 600.00	Not detected	-	-	-	-	-	-	-

Remark;

- Spurious emissions for all channels were investigated and almost the same below 1 GHz.
- Reported spurious emissions are in **11g / 6 Mbps / Middle channel** as worst case among other modes.
- Radiated spurious emission measurement as below.
(Actual = Reading + AF + AMP + CL)
- According to §15.31(o), emission levels are not report much lower than the limits by over 20 dB.

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Test voltage: DC 24 V

Radiated Emissions			Ant	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP + CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
32.18	44.70	Peak	V	11.69	-26.91	29.48	40.00	10.52
49.08	37.80	Peak	V	14.38	-26.46	25.72	40.00	14.28
96.32	43.20	Peak	V	11.51	-25.34	29.37	43.50	14.13
271.45	43.50	Peak	H	12.83	-24.01	32.32	46.00	13.68
427.58	39.10	Peak	H	16.38	-23.03	32.45	46.00	13.55
964.51	38.80	Peak	H	22.40	-21.21	39.99	54.00	14.01

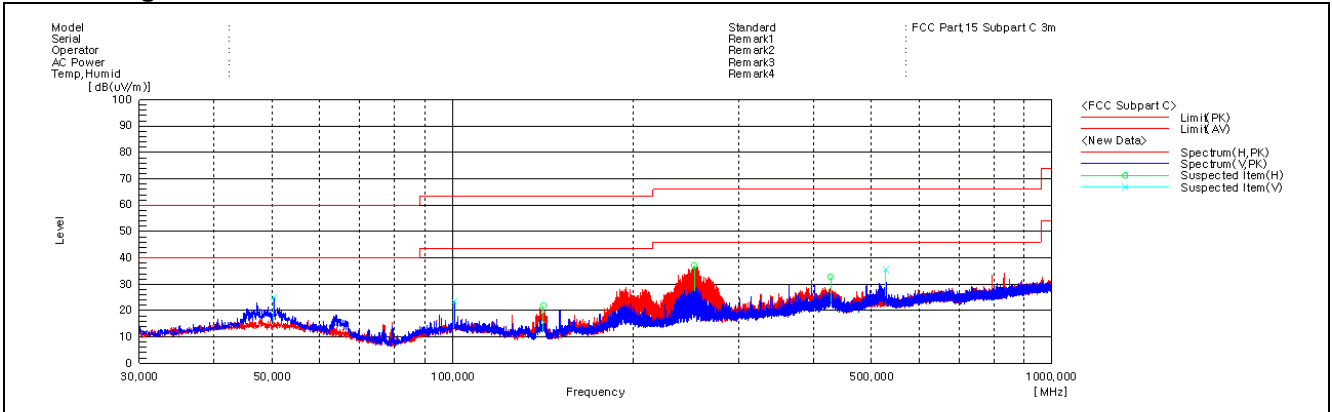
Remark;

1. Spurious emissions for all channels were investigated and almost the same below 1 GHz.
2. Reported spurious emissions are in **11g / 6 Mbps / Middle channel** as worst case among other modes.
3. Radiated spurious emission measurement as below.
(Actual = Reading + AF + AMP + CL)
4. According to §15.31(o), emission levels are not report much lower than the limits by over 20 dB.

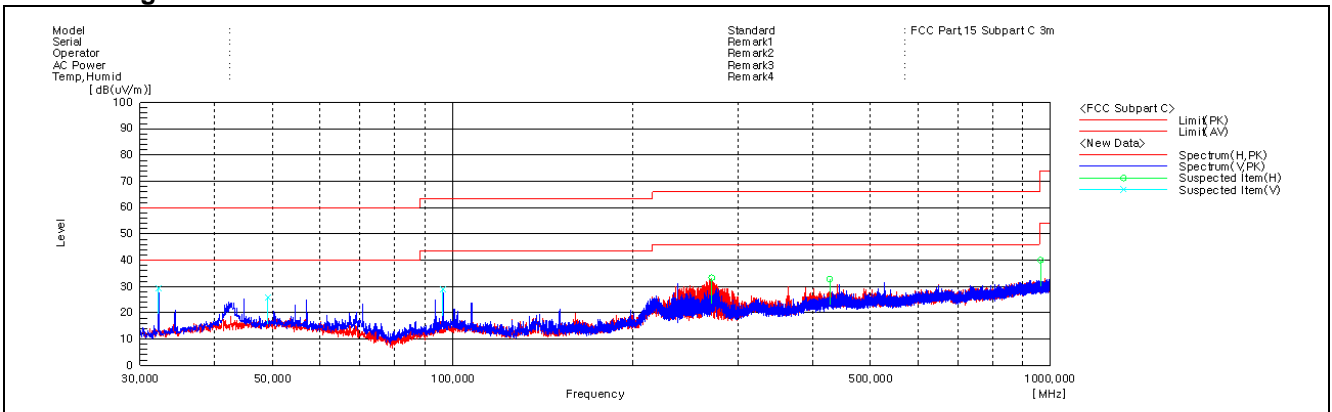
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- Test plots

Test voltage: DC 12 V



Test voltage: DC 24 V



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2.4.2. Radiated Spurious Emission above 1 000 MHz

The frequency spectrum above 1 000 MHz was investigated. All reading values are peak and average values.

Test voltage: DC 12 V

DSSS: 802.11b (1 Mbps)

Low Channel (2 412 MHz)

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
*2 310.00	47.22	Peak	V	27.82	-24.94	-	50.10	74.00	23.90
*2 310.00	37.14	Average	V	27.82	-24.94	-	40.02	54.00	13.98
*2 389.18	52.49	Peak	V	27.98	-24.81	-	55.66	74.00	18.34
*2 388.66	41.12	Average	V	27.98	-24.81	-	44.29	54.00	9.71
*2 390.00	50.83	Peak	V	27.98	-24.80	-	54.01	74.00	19.99
*2 390.00	40.56	Average	V	27.98	-24.80	-	43.74	54.00	10.26

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

Middle Channel (2 437 MHz)

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
*7 311.80	40.91	Peak	H	35.85	-20.20	-	56.56	74.00	17.44
*7 312.10	35.23	Average	H	35.85	-20.20	-	50.88	54.00	3.12
Above 7 400.00	Not detected	-	-	-	-	-	-	-	-

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High Channel (2 462 MHz)

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
*2 483.50	49.87	Peak	V	28.00	-24.67	-	53.20	74.00	20.80
*2 483.50	39.67	Average	V	28.00	-24.67	-	43.00	54.00	11.00
*2 483.90	51.21	Peak	V	28.00	-24.67	-	54.54	74.00	19.46
*2 485.34	39.73	Average	V	28.00	-24.67	-	43.06	54.00	10.94
*2 500.00	49.07	Peak	V	28.00	-24.66	-	52.41	74.00	21.59
*2 500.00	38.09	Average	V	28.00	-24.66	-	41.43	54.00	12.57

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
*7 386.10	40.46	Peak	H	36.07	-20.05	-	56.48	74.00	17.52
*7 384.80	34.81	Average	H	36.07	-20.05	-	50.83	54.00	3.17
Above 7 400.00	Not detected	-	-	-	-	-	-	-	-

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OFDM: 802.11g (6 Mbps)

Low Channel (2 412 MHz)

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
*2 310.00	47.82	Peak	V	27.82	-24.94	-	50.70	74.00	23.30
*2 310.00	36.65	Average	V	27.82	-24.94	0.27	39.80	54.00	14.20
*2 388.66	60.13	Peak	V	27.98	-24.81	-	63.30	74.00	10.70
*2 388.79	43.57	Average	V	27.98	-24.81	0.27	47.01	54.00	6.99
*2 390.00	62.84	Peak	V	27.98	-24.80	-	66.02	74.00	7.98
*2 390.00	46.74	Average	V	27.98	-24.80	0.27	50.19	54.00	3.81

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

Middle Channel (2 437 MHz)

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
*7 314.50	45.87	Peak	H	35.86	-20.19	-	61.54	74.00	12.46
*7 312.80	32.05	Average	H	35.85	-20.20	0.27	47.97	54.00	6.03
Above 7 400.00	Not detected	-	-	-	-	-	-	-	-

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High Channel (2 462 MHz)

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
*2 483.50	62.70	Peak	V	28.00	-24.67	-	66.03	74.00	7.97
*2 483.50	42.48	Average	V	28.00	-24.67	0.27	46.08	54.00	7.92
*2 483.72	62.28	Peak	V	28.00	-24.67	-	65.61	74.00	8.39
*2 484.26	42.29	Average	V	28.00	-24.67	0.27	45.89	54.00	8.11
*2 500.00	48.64	Peak	V	28.00	-24.66	-	51.98	74.00	22.02
*2 500.00	38.47	Average	V	28.00	-24.66	0.27	42.08	54.00	11.92

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
*7 387.90	46.00	Peak	H	36.08	-20.04	-	62.04	74.00	11.96
*7 385.30	32.19	Average	H	36.07	-20.05	0.27	48.48	54.00	5.52
Above 7 400.00	Not detected	-	-	-	-	-	-	-	-

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OFDM: 802.11n_HT20 (MCS0)

Low Channel (2 412 MHz)

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
*2 310.00	47.54	Peak	V	27.82	-24.94	-	50.42	74.00	23.58
*2 310.00	36.79	Average	V	27.82	-24.94	0.25	39.92	54.00	14.08
*2 389.05	63.27	Peak	V	27.98	-24.81	-	66.44	74.00	7.56
*2 388.66	45.45	Average	V	27.98	-24.81	0.25	48.87	54.00	5.13
*2 390.00	64.54	Peak	V	27.98	-24.80	-	67.72	74.00	6.28
*2 390.00	46.91	Average	V	27.98	-24.80	0.25	50.34	54.00	3.66

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

Middle Channel (2 437 MHz)

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
*7 313.90	44.82	Peak	H	35.86	-20.20	-	60.48	74.00	13.52
*7 311.90	30.10	Average	H	35.85	-20.20	0.25	46.00	54.00	8.00
Above 7 400.00	Not detected	-	-	-	-	-	-	-	-

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High Channel (2 462 MHz)

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
*2 483.50	62.13	Peak	V	28.00	-24.67	-	65.46	74.00	8.54
*2 483.50	41.55	Average	V	28.00	-24.67	0.25	45.13	54.00	8.87
*2 484.08	61.67	Peak	V	28.00	-24.67	-	65.00	74.00	9.00
*2 484.62	41.72	Average	V	28.00	-24.67	0.25	45.30	54.00	8.70
*2 500.00	50.44	Peak	V	28.00	-24.66	-	53.78	74.00	20.22
*2 500.00	37.38	Average	V	28.00	-24.66	0.25	40.97	54.00	13.03

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
*7 380.80	42.67	Peak	H	36.06	-20.05	-	58.68	74.00	15.32
*7 384.90	30.78	Average	H	36.07	-20.05	0.25	47.05	54.00	6.95
Above 7 400.00	Not detected	-	-	-	-	-	-	-	-

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OFDM: 802.11n_HT40 (MCS0)

Low Channel (2 422 MHz)

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
*2 310.00	45.24	Peak	V	27.82	-24.94	-	48.12	74.00	25.88
*2 310.00	35.81	Average	V	27.82	-24.94	0.68	39.37	54.00	14.63
*2 388.27	61.14	Peak	V	27.98	-24.81	-	64.31	74.00	9.69
*2 388.53	46.04	Average	V	27.98	-24.81	0.68	49.89	54.00	4.11
*2 390.00	60.33	Peak	V	27.98	-24.80	-	63.51	74.00	10.49
*2 390.00	46.64	Average	V	27.98	-24.80	0.68	50.50	54.00	3.50

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

Middle Channel (2 437 MHz)

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

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High Channel (2 452 MHz)

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
*2 483.50	57.89	Peak	V	28.00	-24.67	-	61.22	74.00	12.78
*2 483.50	42.78	Average	V	28.00	-24.67	0.68	46.79	54.00	7.21
*2 485.82	59.10	Peak	V	28.00	-24.67	-	62.43	74.00	11.57
*2 483.72	43.46	Average	V	28.00	-24.67	0.68	47.47	54.00	6.53
*2 500.00	49.09	Peak	V	28.00	-24.66	-	52.43	74.00	21.57
*2 500.00	37.14	Average	V	28.00	-24.66	0.68	41.16	54.00	12.84

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

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Test voltage: DC 24 V

DSSS: 802.11b (1 Mbps)

Low Channel (2 412 MHz)

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
*2 310.00	46.14	Peak	V	27.82	-24.94	-	49.02	74.00	24.98
*2 310.00	36.99	Average	V	27.82	-24.94	-	39.87	54.00	14.13
*2 389.22	49.14	Peak	V	27.98	-24.81	-	52.31	74.00	21.69
*2 389.35	39.23	Average	V	27.98	-24.81	-	42.40	54.00	11.60
*2 390.00	48.66	Peak	V	27.98	-24.80	-	51.84	74.00	22.16
*2 390.00	38.68	Average	V	27.98	-24.80	-	41.86	54.00	12.14

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

Middle Channel (2 437 MHz)

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

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High Channel (2 462 MHz)

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
*2 483.50	47.11	Peak	V	28.00	-24.67	-	50.44	74.00	23.56
*2 483.50	36.99	Average	V	28.00	-24.67	-	40.32	54.00	13.68
*2 489.60	48.21	Peak	V	28.00	-24.66	-	51.55	74.00	22.45
*2 485.22	37.27	Average	V	28.00	-24.67	-	40.60	54.00	13.40
*2 500.00	45.81	Peak	V	28.00	-24.66	-	49.15	74.00	24.85
*2 500.00	35.85	Average	V	28.00	-24.66	-	39.19	54.00	14.81

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

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OFDM: 802.11g (6 Mbps)

Low Channel (2 412 MHz)

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
*2 310.00	47.09	Peak	V	27.82	-24.94	-	49.97	74.00	24.03
*2 310.00	36.33	Average	V	27.82	-24.94	0.51	39.72	54.00	14.28
*2 388.44	62.68	Peak	V	27.98	-24.81	-	65.85	74.00	8.15
*2 389.22	44.56	Average	V	27.98	-24.81	0.51	48.24	54.00	5.76
*2 390.00	62.21	Peak	V	27.98	-24.80	-	65.39	74.00	8.61
*2 390.00	46.60	Average	V	27.98	-24.80	0.51	50.29	54.00	3.71

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

Middle Channel (2 437 MHz)

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

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High Channel (2 462 MHz)

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
*2 483.50	60.53	Peak	V	28.00	-24.67	-	63.86	74.00	10.14
*2 483.50	41.12	Average	V	28.00	-24.67	0.51	44.96	54.00	9.04
*2 483.90	59.78	Peak	V	28.00	-24.67	-	63.11	74.00	10.89
*2 484.56	41.01	Average	V	28.00	-24.67	0.51	44.85	54.00	9.15
*2 500.00	48.43	Peak	V	28.00	-24.66	-	51.77	74.00	22.23
*2 500.00	37.23	Average	V	28.00	-24.66	0.51	41.08	54.00	12.92

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

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OFDM: 802.11n_HT20 (MCS0)

Low Channel (2 412 MHz)

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
*2 310.00	46.94	Peak	V	27.82	-24.94	-	49.82	74.00	24.18
*2 310.00	37.28	Average	V	27.82	-24.94	0.30	40.46	54.00	13.54
*2 389.48	65.28	Peak	V	27.98	-24.81	-	68.45	74.00	5.55
*2 389.74	46.97	Average	V	27.98	-24.80	0.30	50.45	54.00	3.55
*2 390.00	64.49	Peak	V	27.98	-24.80	-	67.67	74.00	6.33
*2 390.00	46.30	Average	V	27.98	-24.80	0.30	49.78	54.00	4.22

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

Middle Channel (2 437 MHz)

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

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High Channel (2 462 MHz)

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
*2 483.50	57.23	Peak	V	28.00	-24.67	-	60.56	74.00	13.44
*2 483.50	39.57	Average	V	28.00	-24.67	0.30	43.20	54.00	10.80
*2 485.46	59.76	Peak	V	28.00	-24.67	-	63.09	74.00	10.91
*2 483.72	40.07	Average	V	28.00	-24.67	0.30	43.70	54.00	10.30
*2 500.00	47.04	Peak	V	28.00	-24.66	-	50.38	74.00	23.62
*2 500.00	36.80	Average	V	28.00	-24.66	0.30	40.44	54.00	13.56

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

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OFDM: 802.11n_HT40 (MCS0)

Low Channel (2 422 MHz)

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
*2 310.00	46.25	Peak	V	27.82	-24.94	-	49.13	74.00	24.87
*2 310.00	35.79	Average	V	27.82	-24.94	0.98	39.65	54.00	14.35
*2 388.31	61.32	Peak	V	27.98	-24.81	-	64.49	74.00	9.51
*2 389.74	45.94	Average	V	27.98	-24.80	0.98	50.10	54.00	3.90
*2 390.00	60.70	Peak	V	27.98	-24.80	-	63.88	74.00	10.12
*2 390.00	45.79	Average	V	27.98	-24.80	0.98	49.95	54.00	4.05

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

Middle Channel (2 437 MHz)

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

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High Channel (2 452 MHz)

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
*2 483.50	54.89	Peak	V	28.00	-24.67	-	58.22	74.00	15.78
*2 483.50	40.46	Average	V	28.00	-24.67	0.98	44.77	54.00	9.23
*2 485.70	55.24	Peak	V	28.00	-24.67	-	58.57	74.00	15.43
*2 485.22	40.92	Average	V	28.00	-24.67	0.98	45.23	54.00	8.77
*2 500.00	49.87	Peak	V	28.00	-24.66	-	53.21	74.00	20.79
*2 500.00	36.85	Average	V	28.00	-24.66	0.98	41.17	54.00	12.83

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

Remarks;

1. "*" means the restricted band.
2. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
3. Radiated emissions measured in frequency above 1 000 MHz were made with an instrument using peak/average detector mode.
4. Actual = Reading + AF + AMP + CL + (DF).
5. According to § 15.31(o), emission levels are not reported much lower than the limits by over 20 dB.
6. The maximized peak measured value complies with the average limit, to perform an average measurement is unnecessary.

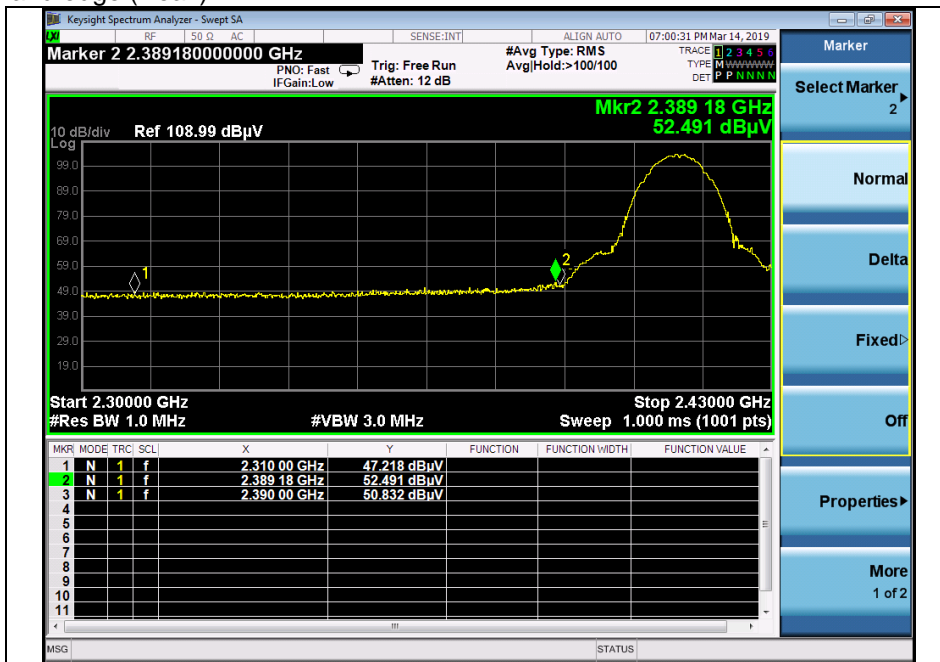
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- Test plots

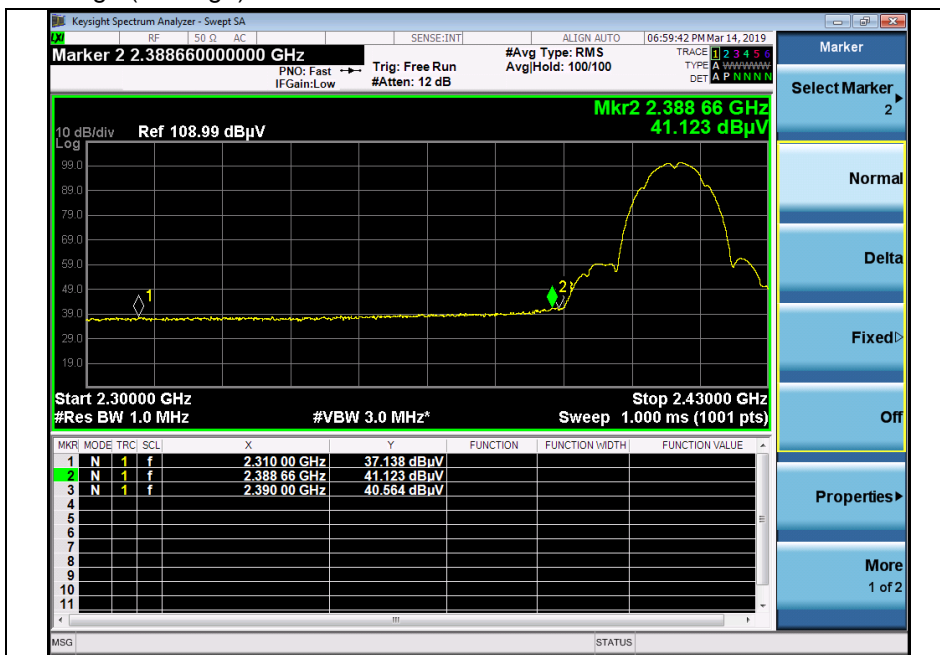
Test voltage: DC 12 V

DSSS: 802.11b (1 Mbps)

Low channel Band edge (Peak)



Low channel Band edge (Average)



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High channel Band edge (Peak)



High channel Band edge (Average)



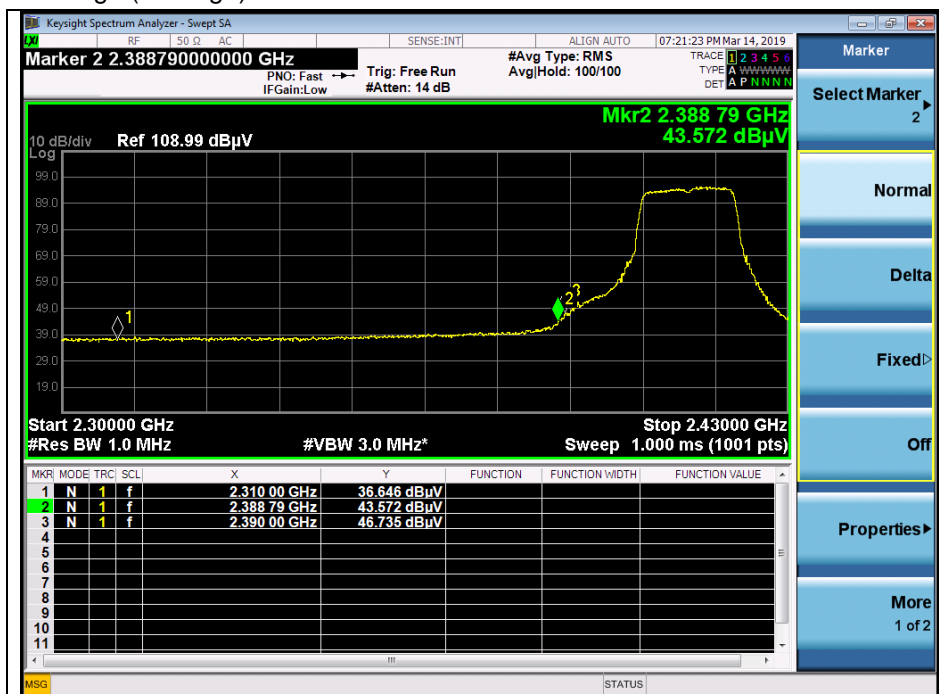
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OFDM: 802.11g (6 Mbps)

Low channel Band edge (Peak)



Low channel Band edge (Average)



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High channel Band edge (Peak)



High channel Band edge (Average)



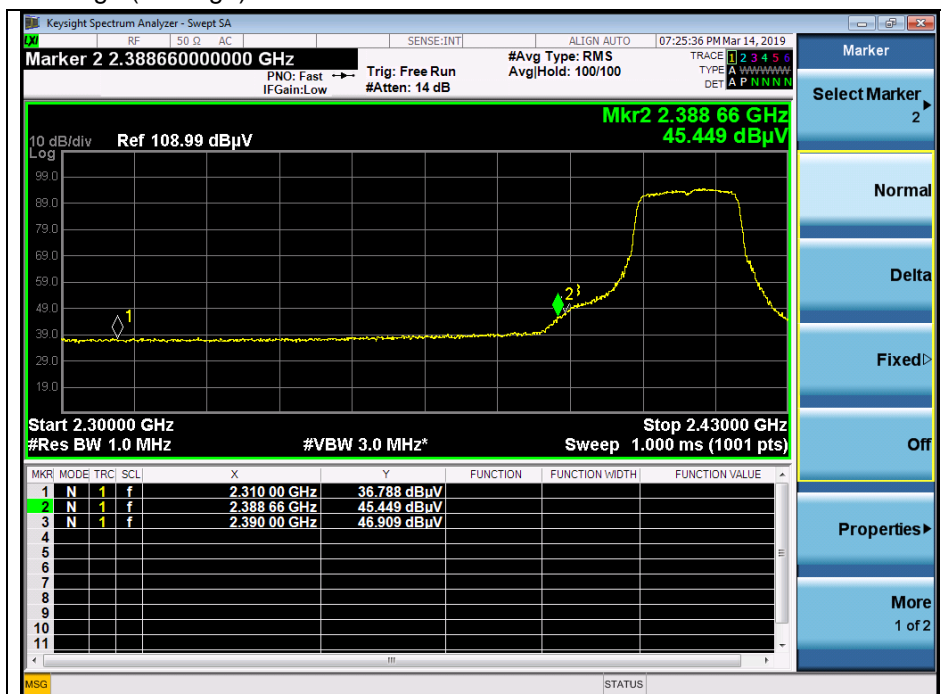
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OFDM: 802.11n_HT20 (MCS0)

Low channel Band edge (Peak)



Low channel Band edge (Average)

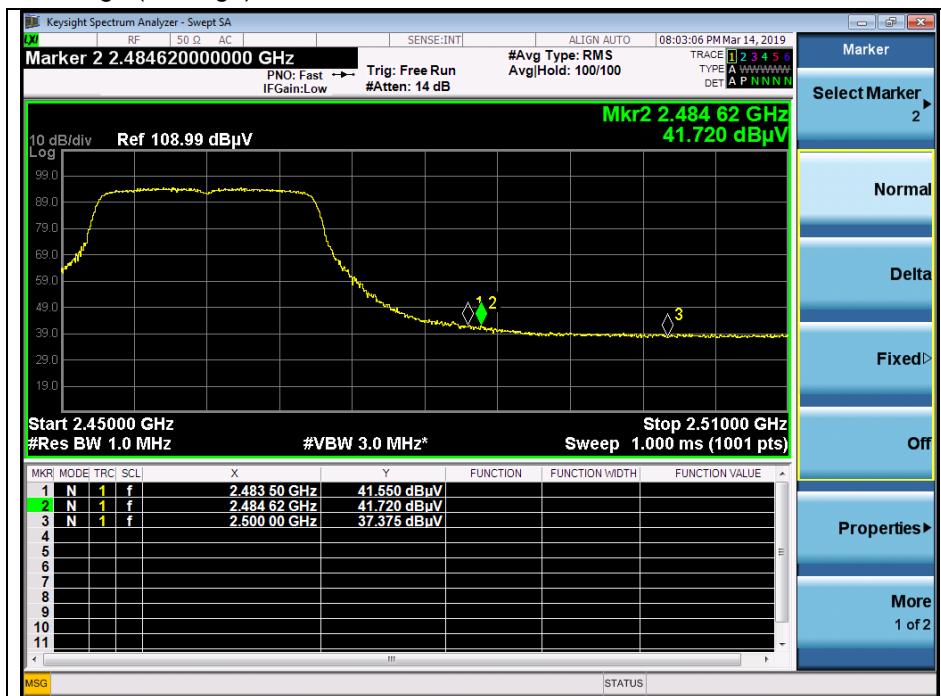


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High channel Band edge (Peak)



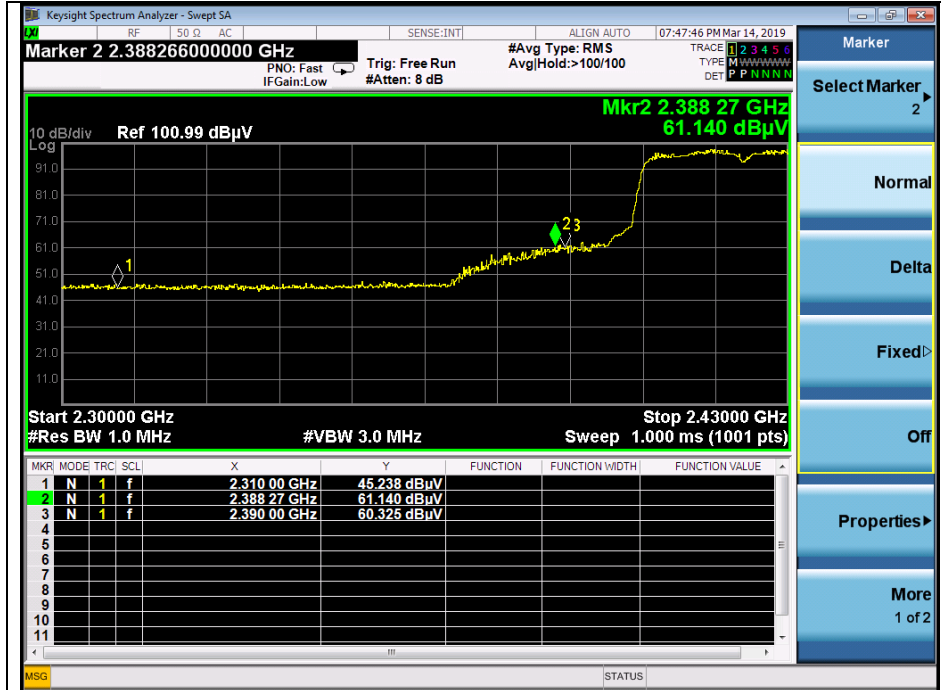
High channel Band edge (Average)



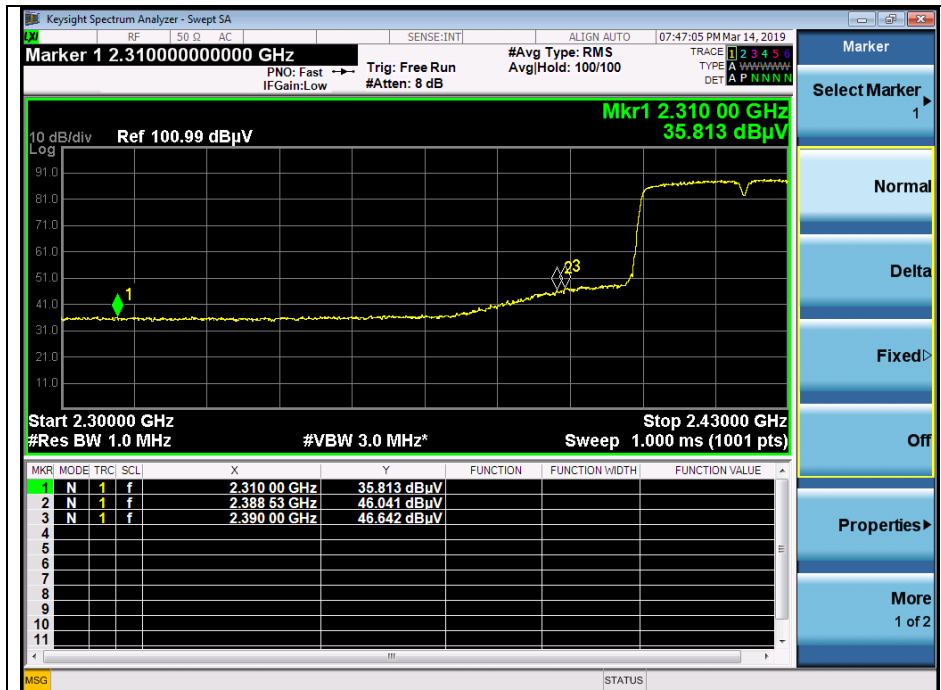
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OFDM: 802.11n_HT40 (MCS0)

Low channel Band edge (Peak)



Low channel Band edge (Average)



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High channel Band edge (Peak)



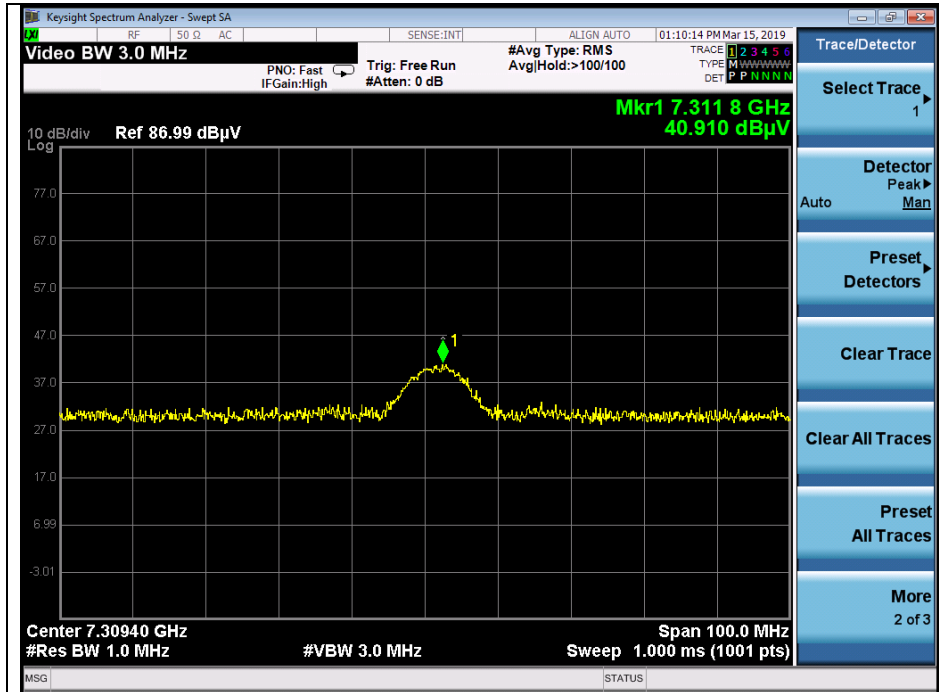
High channel Band edge (Average)



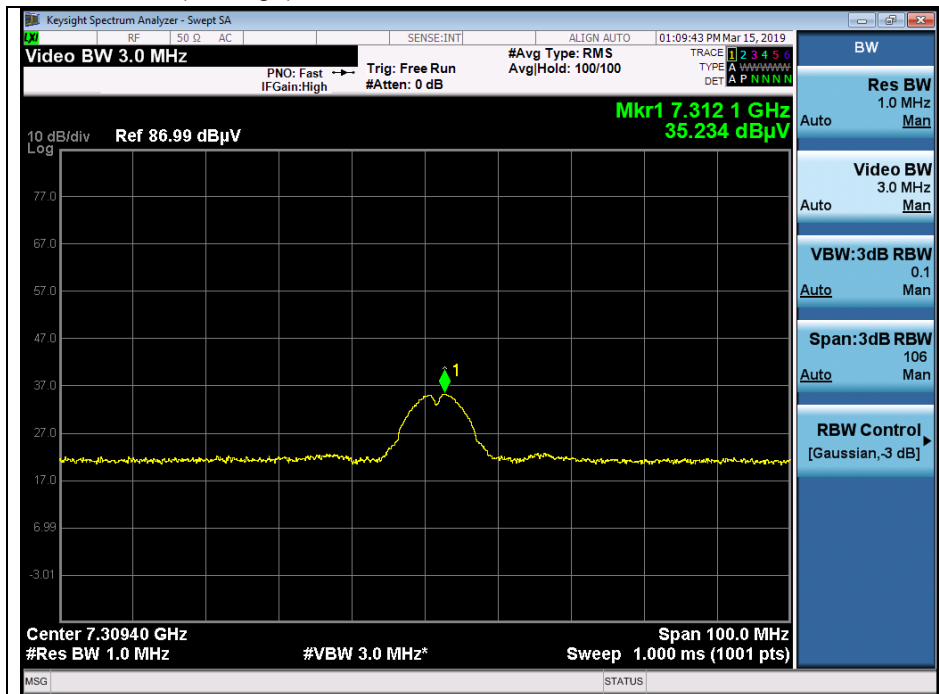
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DSSS: 802.11b (1 Mbps)

Middle channel 3rd harmonic (Peak)

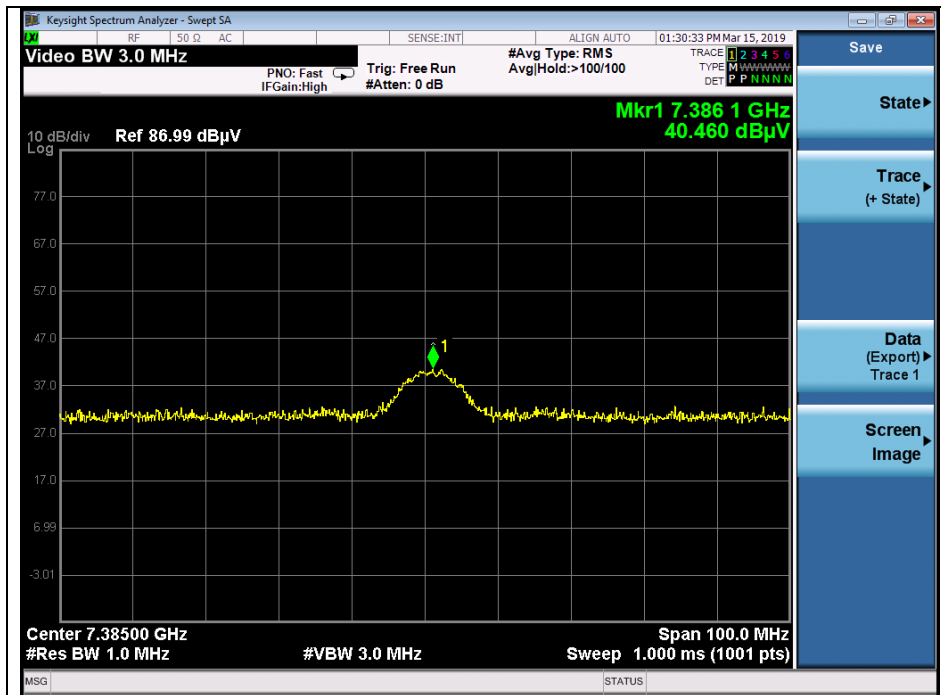


Middle channel 3rd harmonic (Average)

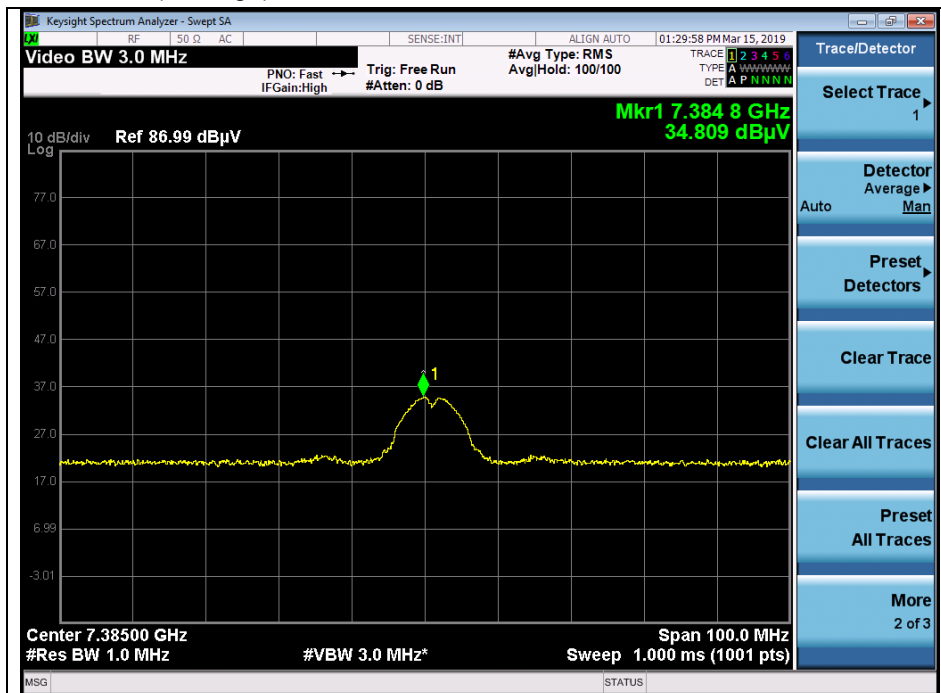


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High channel 3rd harmonic (Peak)



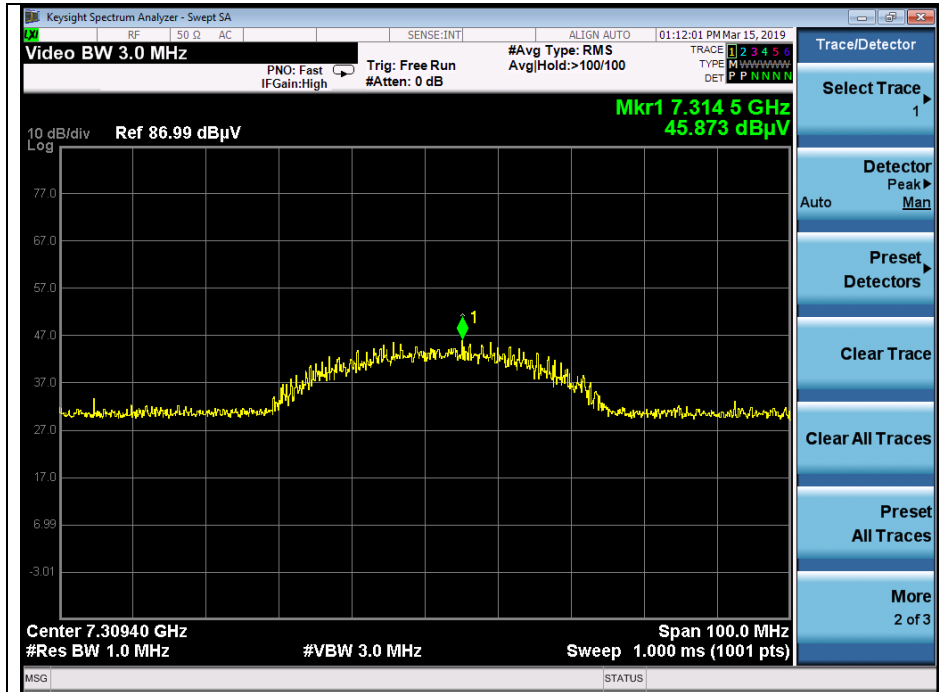
High channel 3rd harmonic (Average)



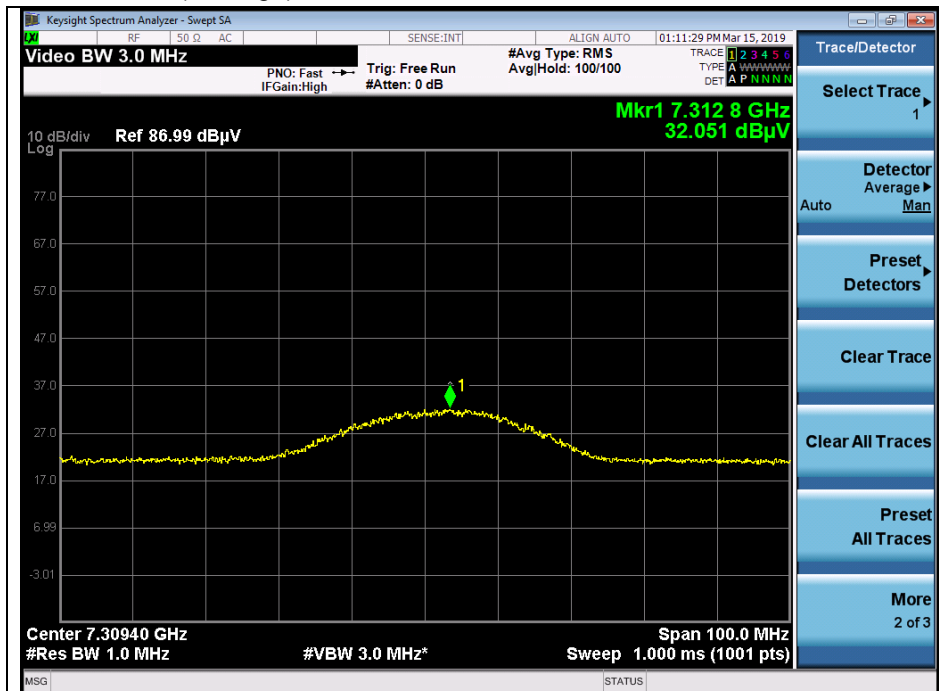
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OFDM: 802.11g (6 Mbps)

Middle channel 3rd harmonic (Peak)

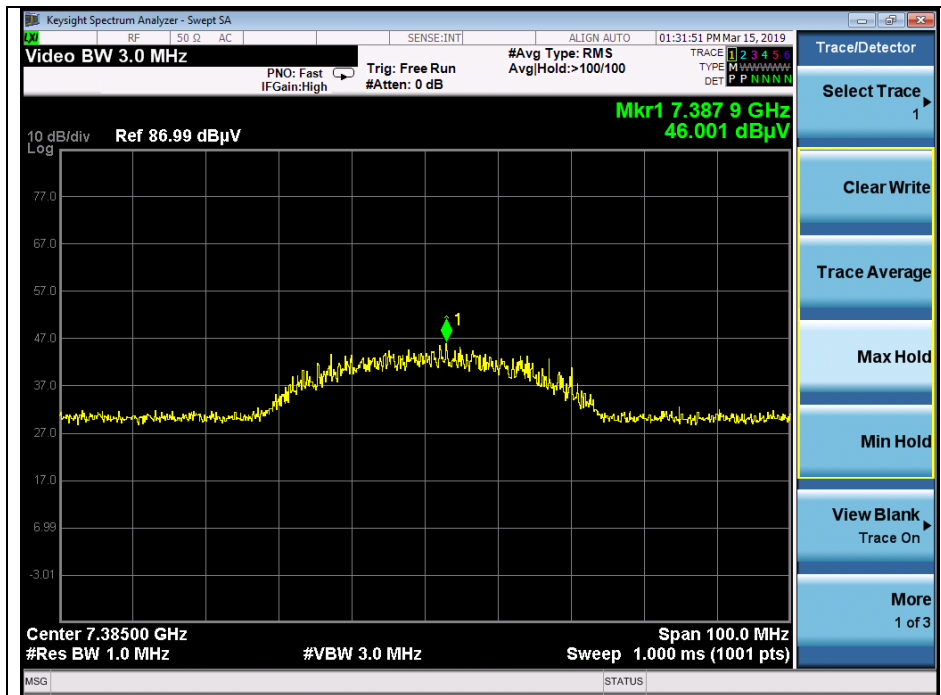


Middle channel 3rd harmonic (Average)

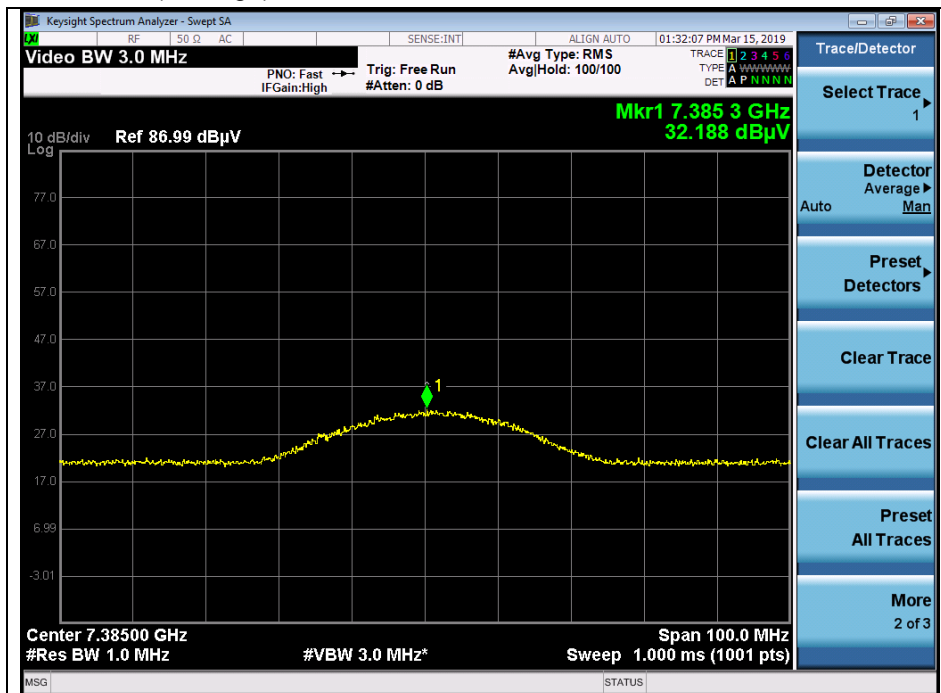


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High channel 3rd harmonic (Peak)



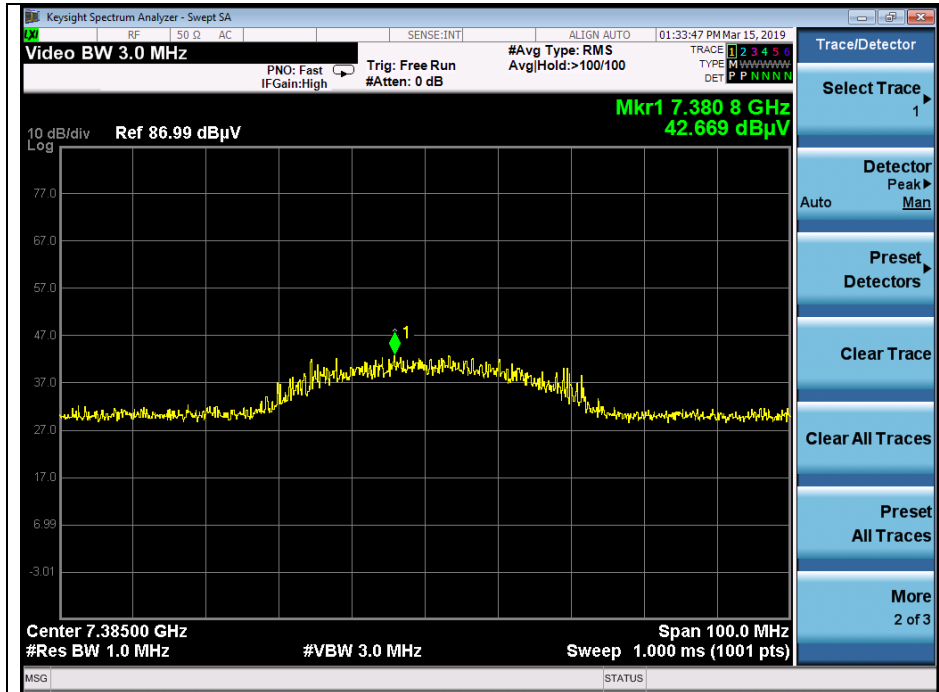
High channel 3rd harmonic (Average)



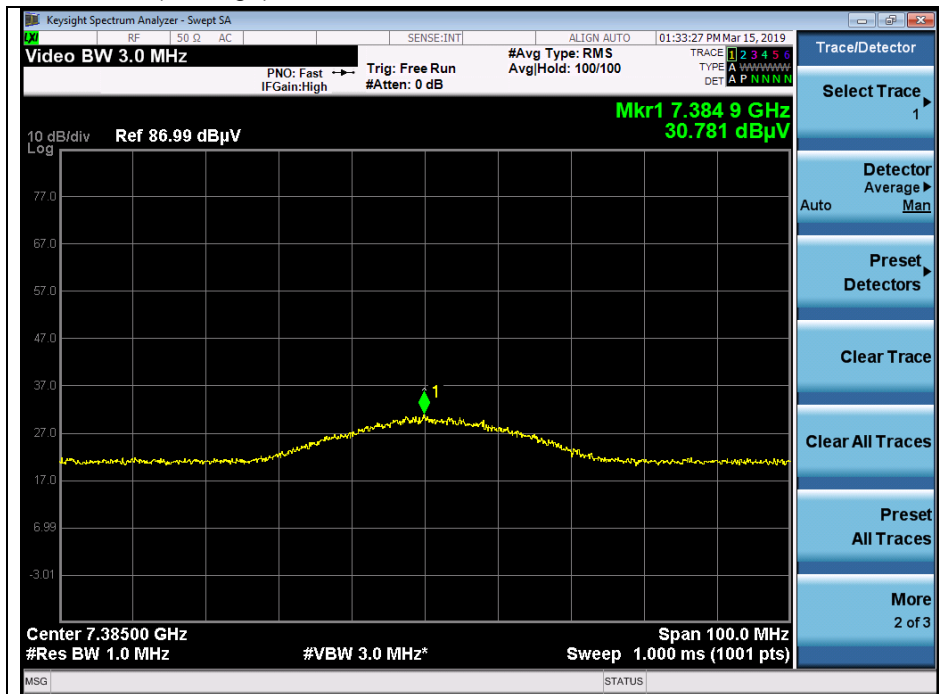
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OFDM: 802.11n_HT20 (MCS0)

High channel 3rd harmonic (Peak)

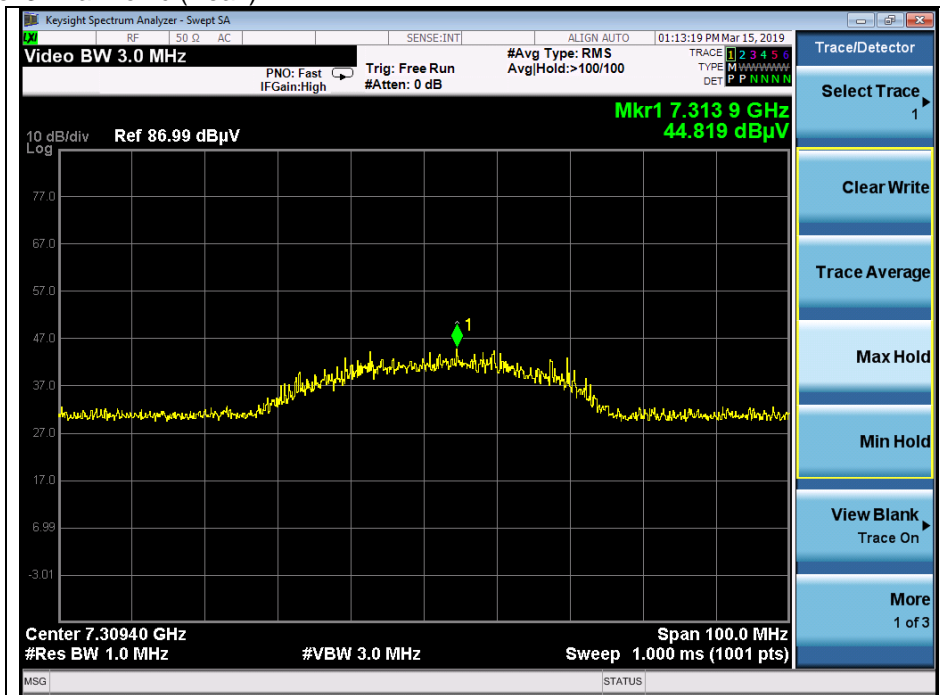


High channel 3rd harmonic (Average)



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Middle channel 3rd harmonic (Peak)



Middle channel 3rd harmonic (Average)

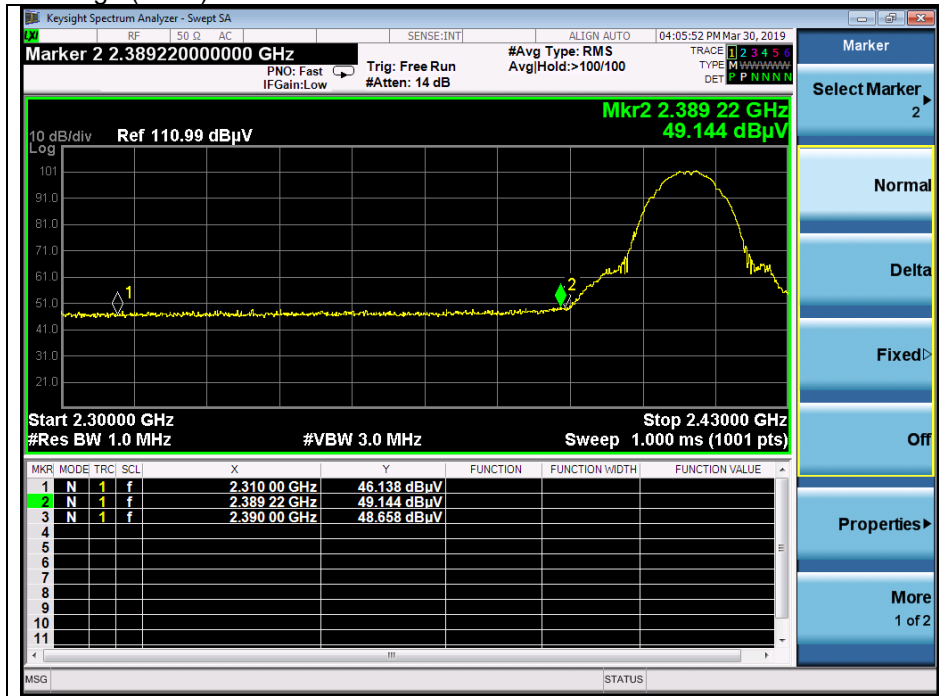


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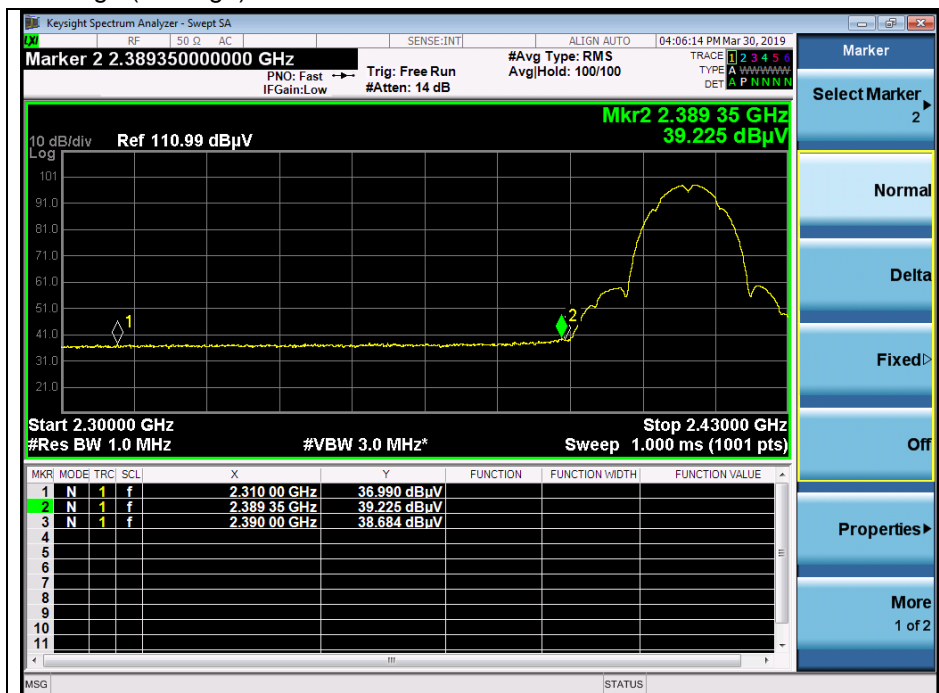
Test voltage: DC 24 V

DSSS: 802.11b (1 Mbps)

Low channel Band edge (Peak)



Low channel Band edge (Average)



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High channel Band edge (Peak)



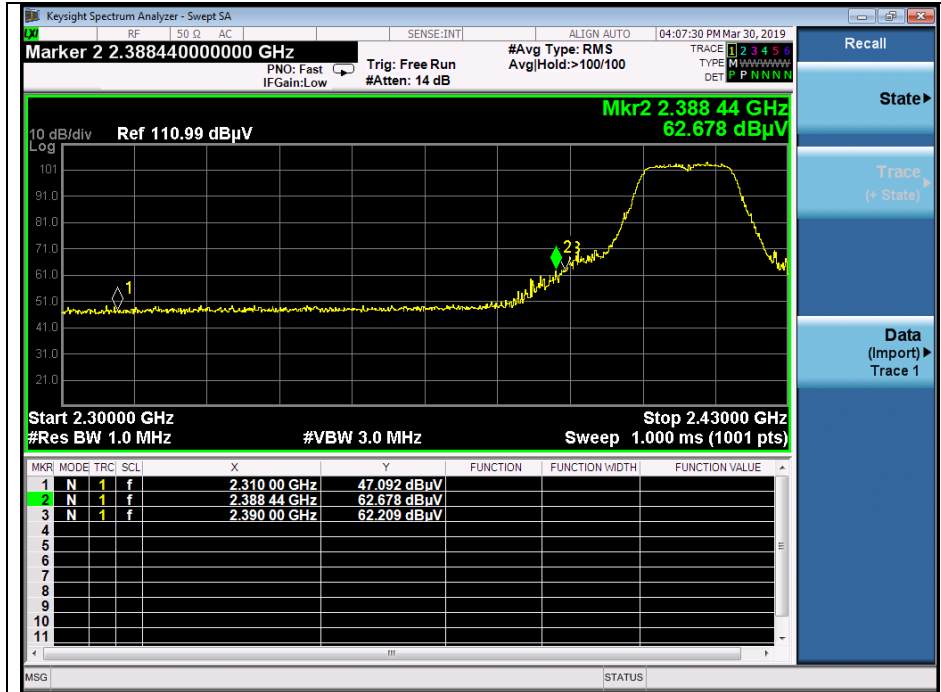
High channel Band edge (Average)



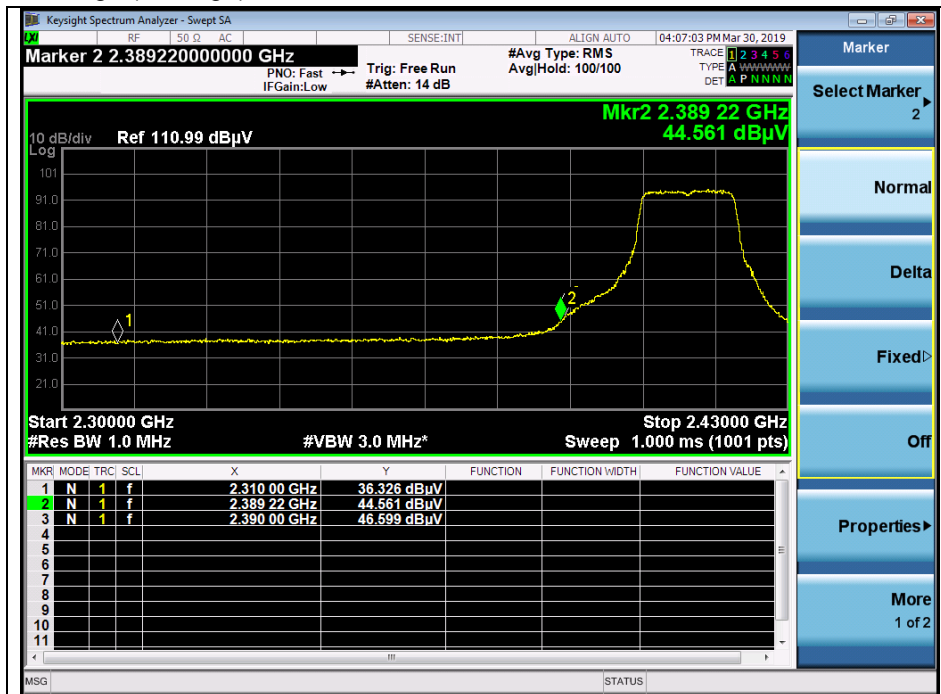
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OFDM: 802.11g (6 Mbps)

Low channel Band edge (Peak)



Low channel Band edge (Average)



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High channel Band edge (Peak)



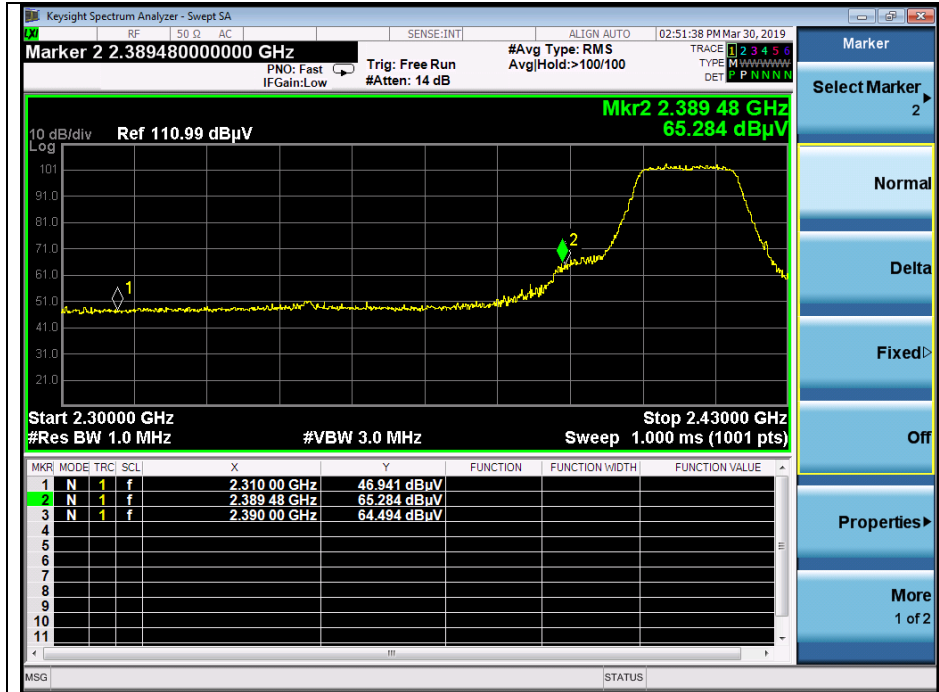
High channel Band edge (Average)



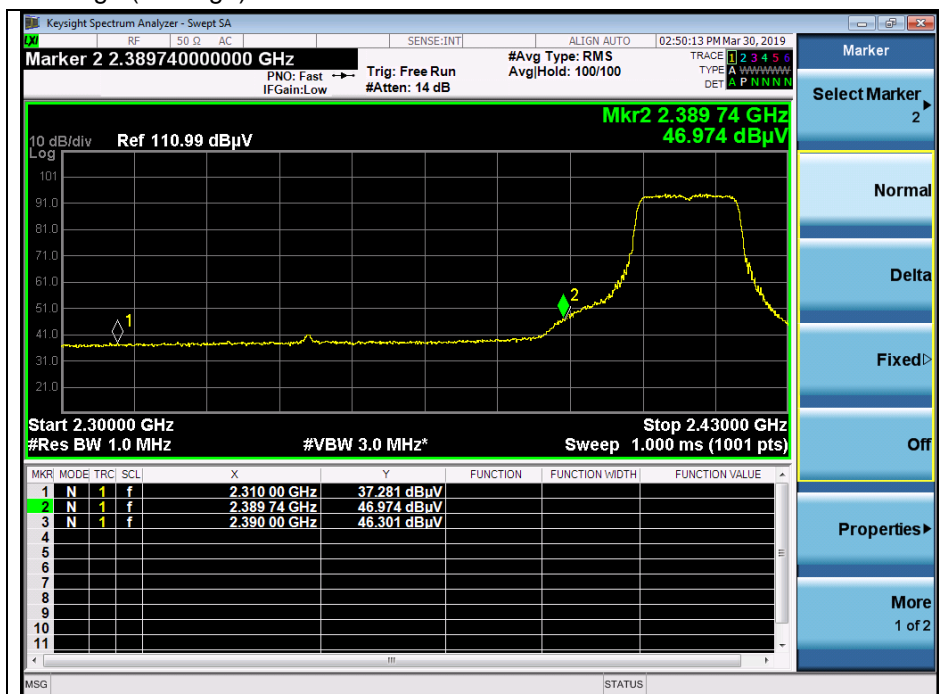
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OFDM: 802.11n_HT20 (MCS0)

Low channel Band edge (Peak)



Low channel Band edge (Average)



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High channel Band edge (Peak)



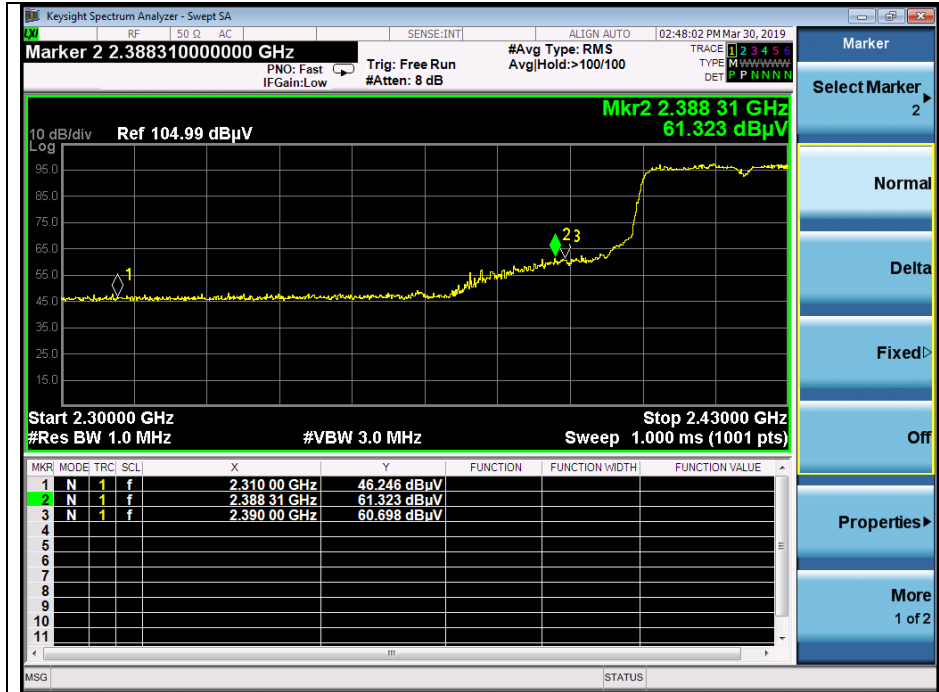
High channel Band edge (Average)



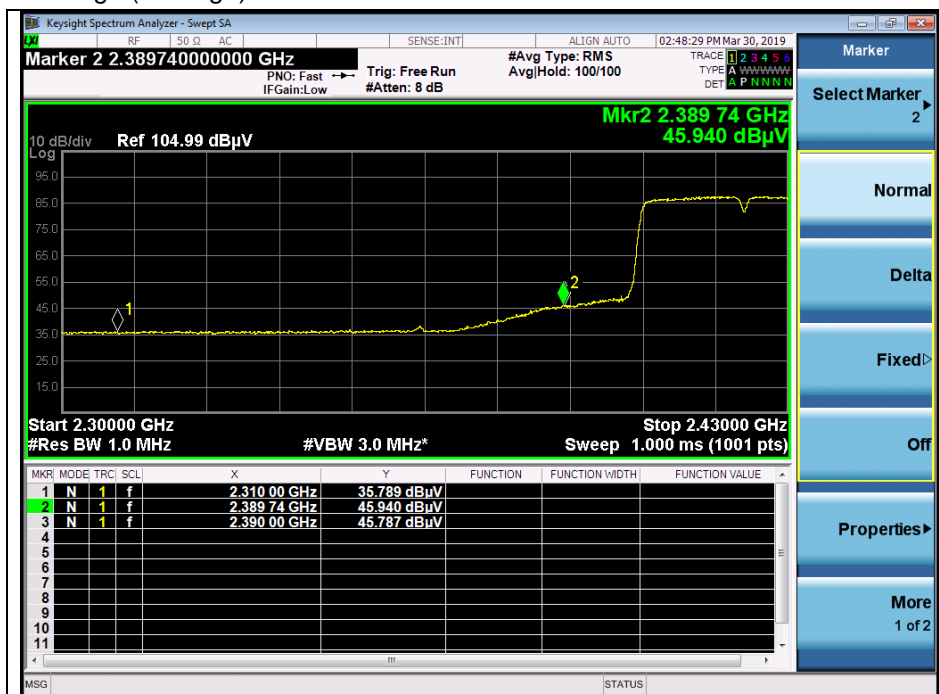
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OFDM: 802.11n_HT40 (MCS0)

Low channel Band edge (Peak)



Low channel Band edge (Average)



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High channel Band edge (Peak)



High channel Band edge (Average)



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